

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE LOWER FRENCH BROAD RIVER WATERSHED

4.1 Background.

4.2. Characterization of HUC-12 Subwatersheds

- 4.2.A. 060101070101 (Douglas Lake, Upper)**
- 4.2.B. 060101070102 (Douglas Lake, Middle)**
- 4.2.C. 060101070103 (Douglas Lake, Lower)**
- 4.2.D. 060101070104 (Mud Creek)**
- 4.2.E. 060101070201 (French Broad River)**
- 4.2.F. 060101070202 (Boyds Creek)**
- 4.2.G. 060101070203 (Dumplin Creek)**
- 4.2.H. 060101070204 (French Broad River)**
- 4.2.I. 060101070205 (Tuckahoe Creek)**
- 4.2.J. 060101070301 (Middle Prong Little Pigeon River)**
- 4.2.K. 060101070302 (Porters Creek)**
- 4.2.L. 060101070303 (East Prong Little Pigeon River)**
- 4.2.M. 060101070304 (Webb Creek)**
- 4.2.N. 060101070305 (Bird Creek)**
- 4.2.O. 060101070306 (East Fork Dunn Creek)**
- 4.2.P. 060101070307 (West Prong Little Pigeon River)**
- 4.2.Q. 060101070308 (Le Conte Creek)**
- 4.2.R. 060101070309 (Baskins Creek)**
- 4.2.S. 060101070310 (Roaring Fork)**
- 4.2.T. 060101070311 (Dudley Creek)**
- 4.2.U. 060101070312 (Waldon Creek)**
- 4.2.V. 060101070313 (West Prong Little Pigeon River, Lower)**
- 4.2.W. 060101070314 (Middle Creek)**
- 4.2.X. 060101070315 (Little Pigeon River, Lower)**

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. USGS (United States Geological Survey) gaging stations and STORET sites
- iii. Location of permitted activities
- iv. Description of nonpoint source contributions

The HUC can range from 2 to 16 digits long, more digits indicating a smaller and smaller portion of the watershed is represented. The Lower French Broad River Watershed (HUC 06010107X) has been delineated into twenty-four HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 2001 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

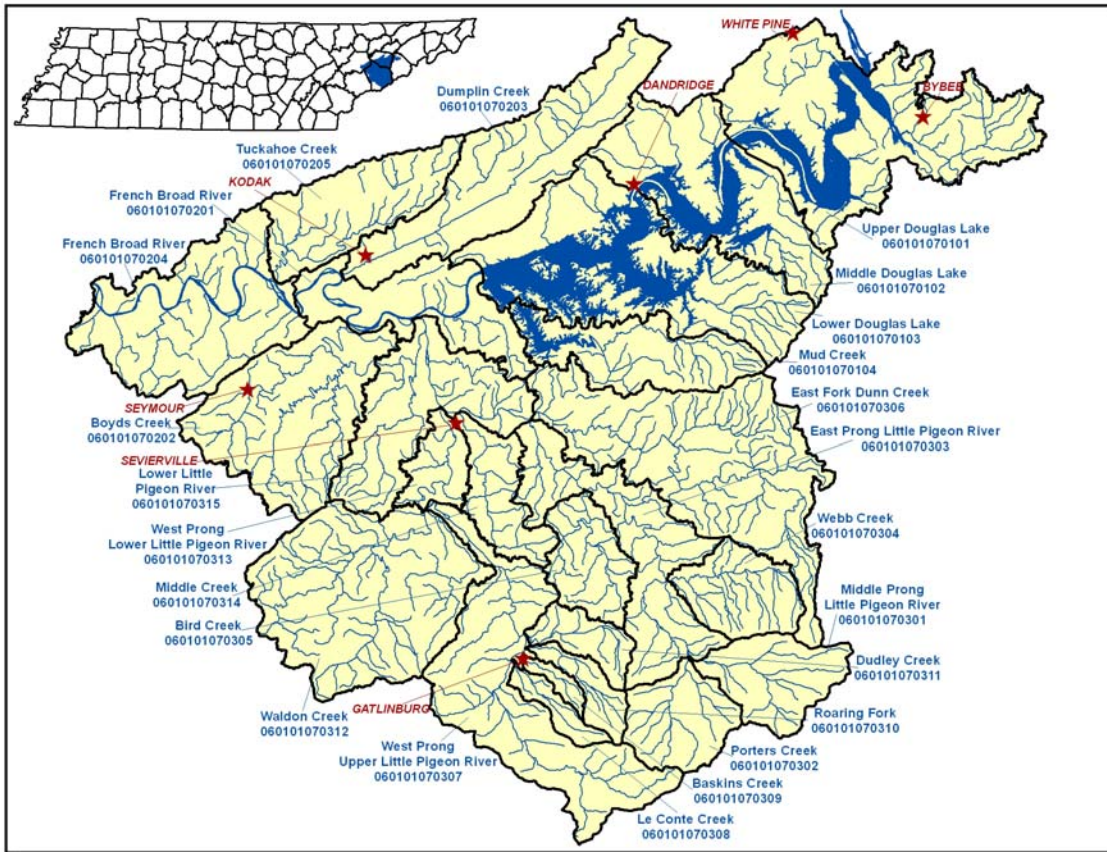


Figure 4-1. The Lower French Broad River Watershed is Composed of Twenty-Four USGS-Delineated Subwatersheds (12-Digit Subwatersheds).

4.2. CHARACTERIZATION OF HUC-12 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Lower French Broad River Watershed.

HUC-8	HUC-10	HUC-12
06010107	0601010701	060101070101 (Douglas Lake, Upper)
		060101070102 (Douglas Lake, Middle)
		060101070103 (Douglas Lake, Lower)
		060101070104 (Mud Creek)
	0601010702	060101070201 (French Broad River)
		060101070202 (Boyds Creek)
		060101070203 (Dumplin Creek)
		060101070204 (French Broad River)
		060101070205 (Tuckahoe Creek)
	0601010703	060101070301 (Middle Prong Little Pigeon River)
		060101070302 (Porters Creek)
		060101070303 (East Prong Little Pigeon River)
		060101070304 (Webb Creek)
		060101070305 (Bird Creek)
		060101070306 (East Fork Dunn Creek)
		060101070307 (West Prong Little Pigeon River)
		060101070308 (Le Conte Creek)
		060101070309 (Baskins Creek)
		060101070310 (Roaring Fork)
		060101070311 (Dudley Creek)
		060101070312 (Waldon Creek)
		060101070313 (West Prong Little Pigeon River, Lower)
		060101070314 (Middle Creek)
		060101070315 (Little Pigeon River, Lower)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.

4.2.A 060101070101 (Douglas Lake, Upper).

4.2.A.i. General Description

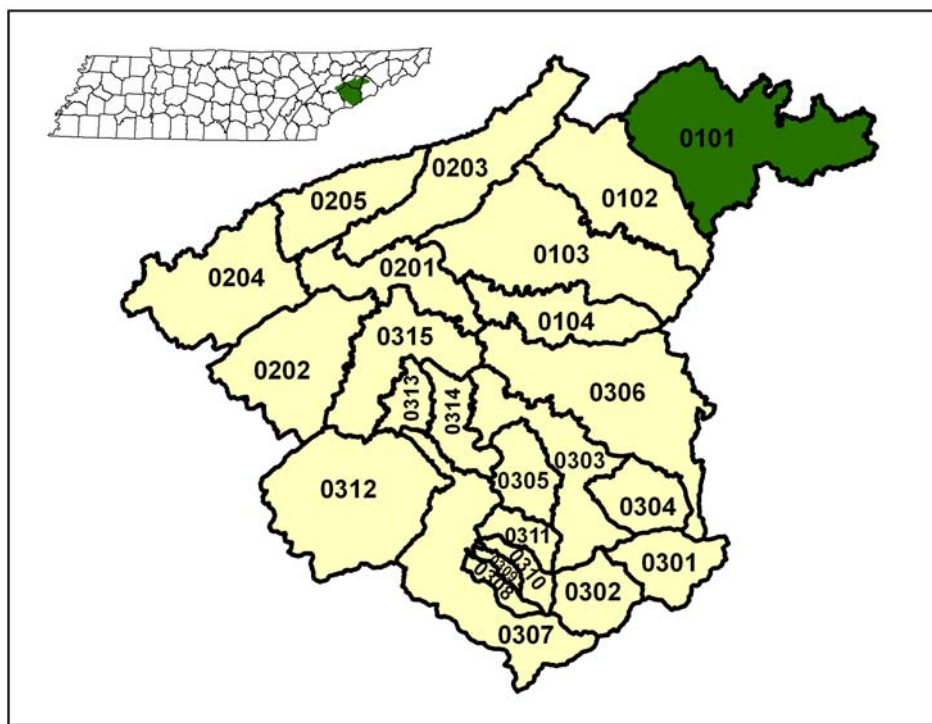


Figure 4-2. Location of Subwatershed 060101070101. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

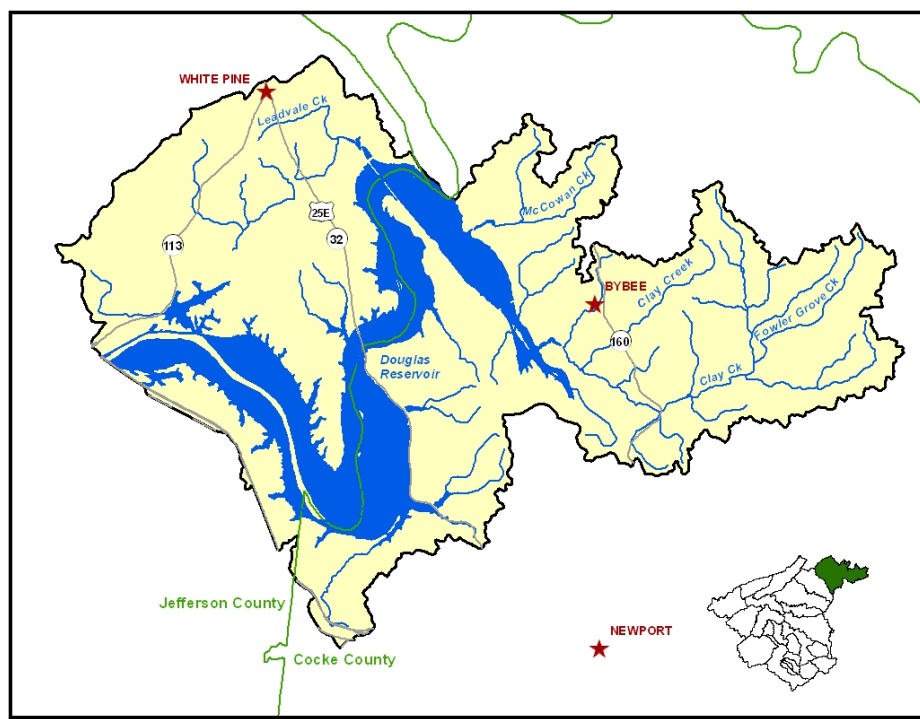


Figure 4-3. Locational Details of Subwatershed 060101070101.

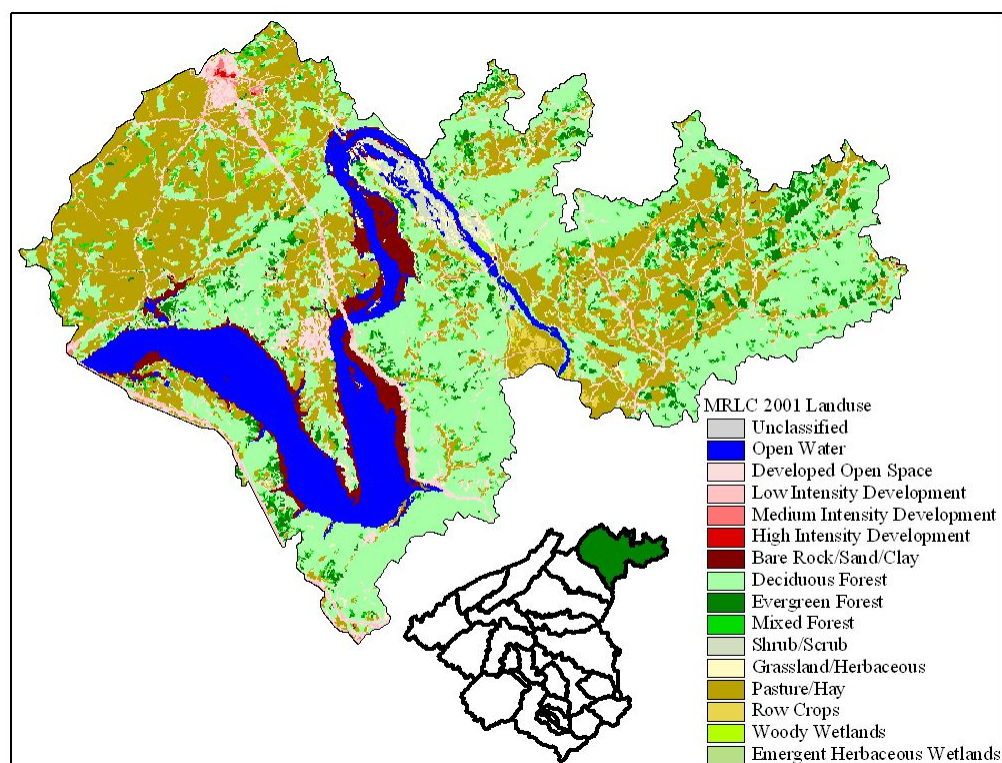


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 060101070101.

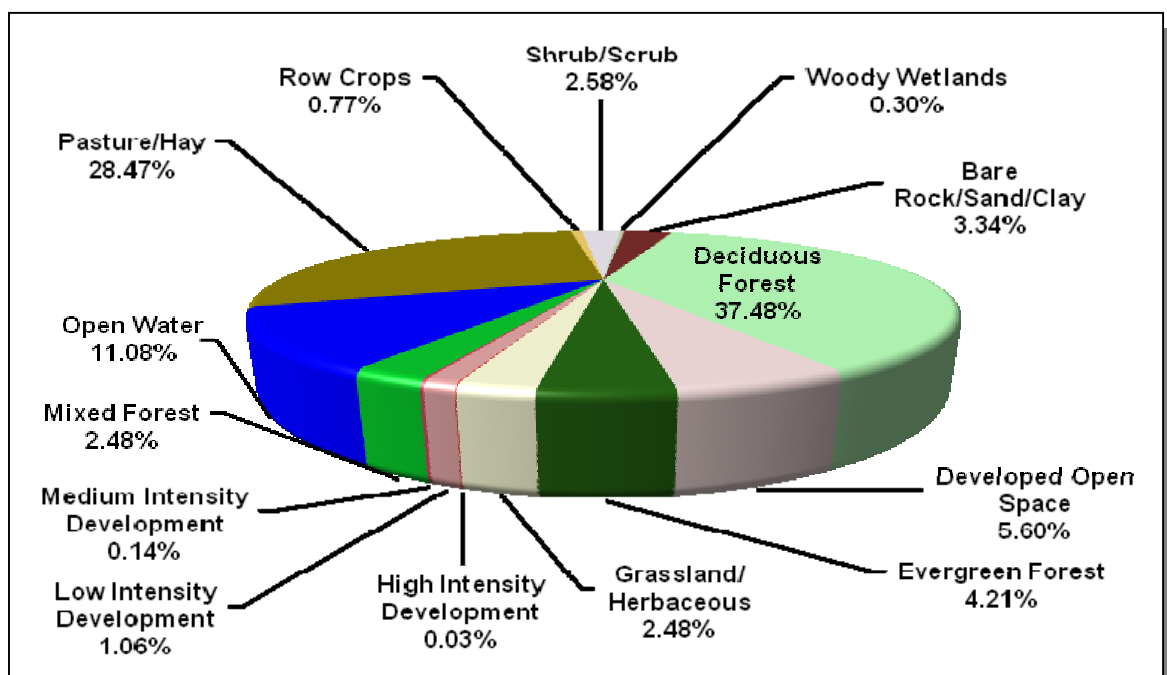


Figure 4-5. Land Use Distribution in Subwatershed 060101070101. More information is provided in Appendix IV.

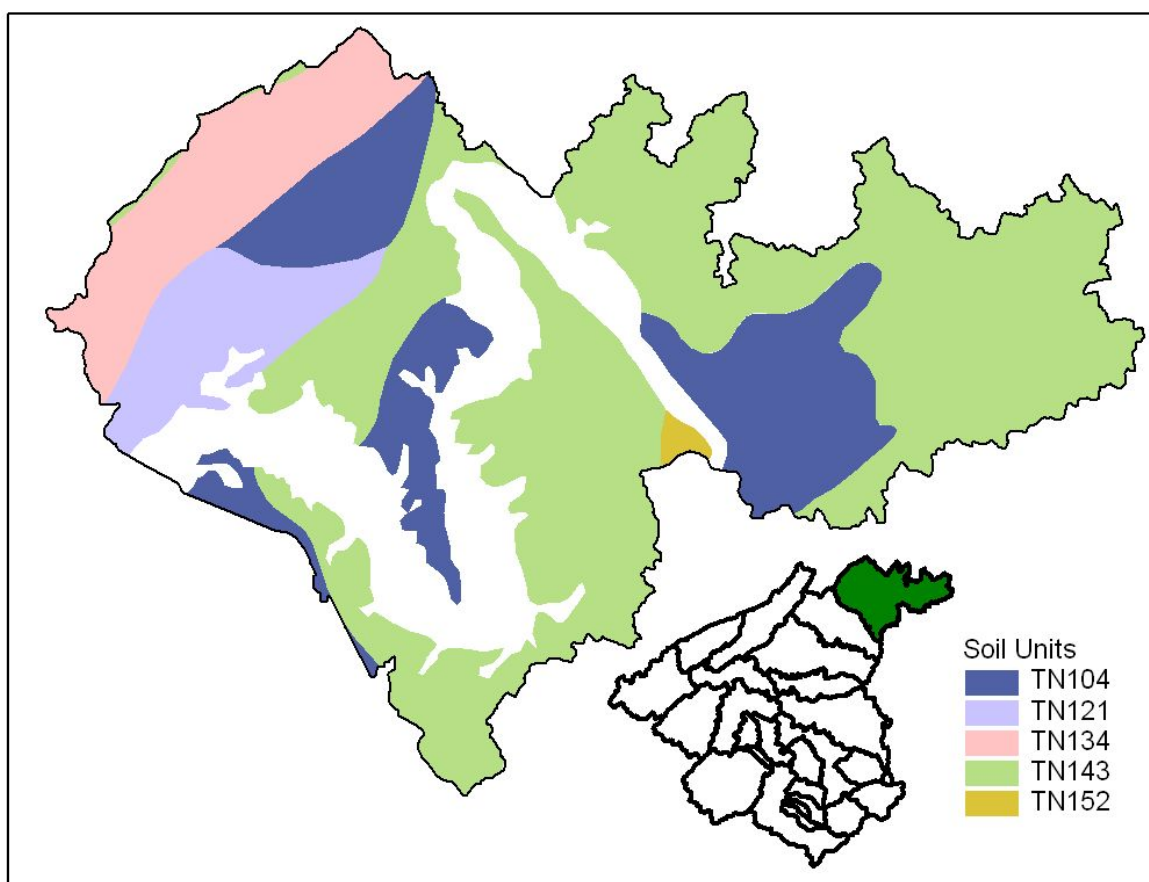


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN104	1.00	C	1.20	5.23	Silty Loam	0.38
TN121	0.00	B	1.30	5.21	Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN143	0.00	C	1.22	6.44	Loam	0.32
TN152	0.00	B	2.11	5.26	Loam	0.31
TN172	0.00	B	3.87	5.13	Loam	0.26

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070101. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Cocke	29,141	31,657	33,565	9.23	2,690	2,922	3,099	15.20
Jefferson	33,016	42,168	44,294	10.21	3,371	4,305	4,523	34.20
Totals	62,157	73,825	77,859		6,061	7,227	7,622	25.80

Table 4-3. Population Estimates in Subwatershed 060101070101.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Baneberry	Jefferson	189	120	8	112	0
White Pine	Jefferson	1,771	768	638	127	3
Total		1,960	888	646	239	3

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070101.

4.2.A.ii STORET Sites

There are no USGS continuous records gaging stations located in subwatershed 060101070101.

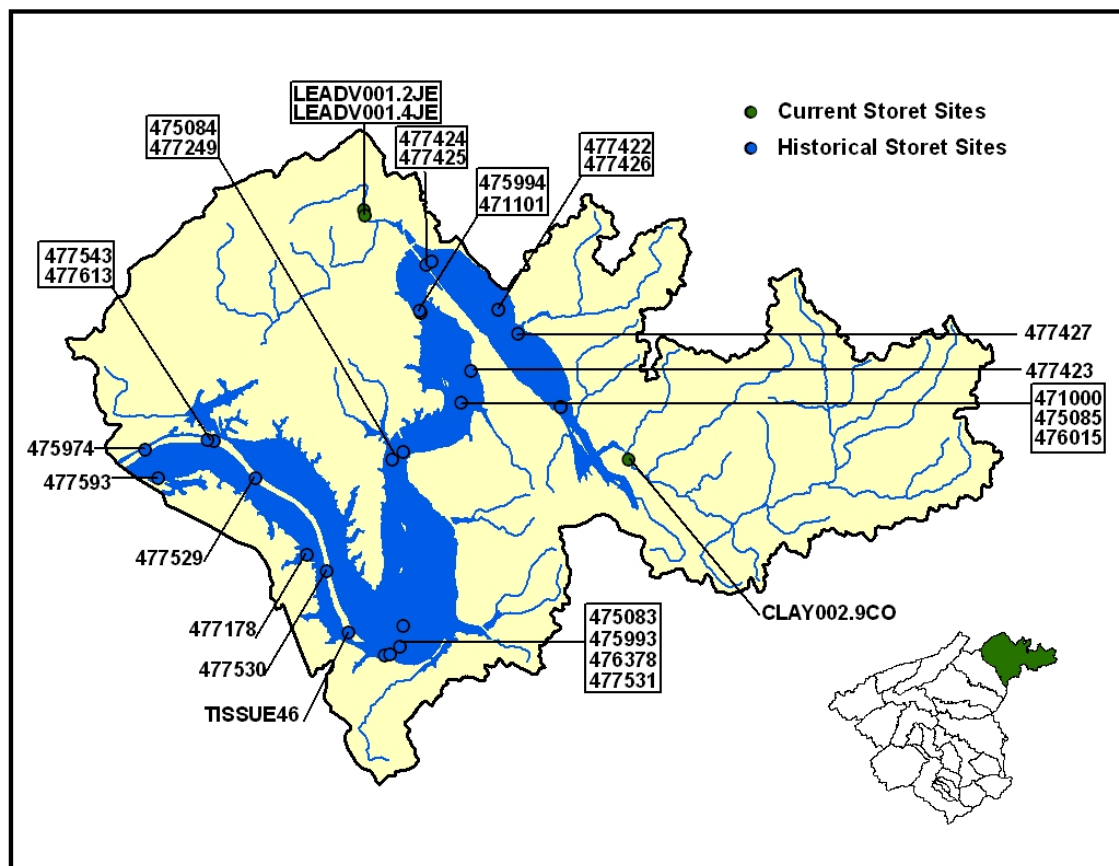


Figure 4-7. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070101. More information, including site names and locations, is provided in Appendix IV.

4.2.A.iii. Permitted Activities

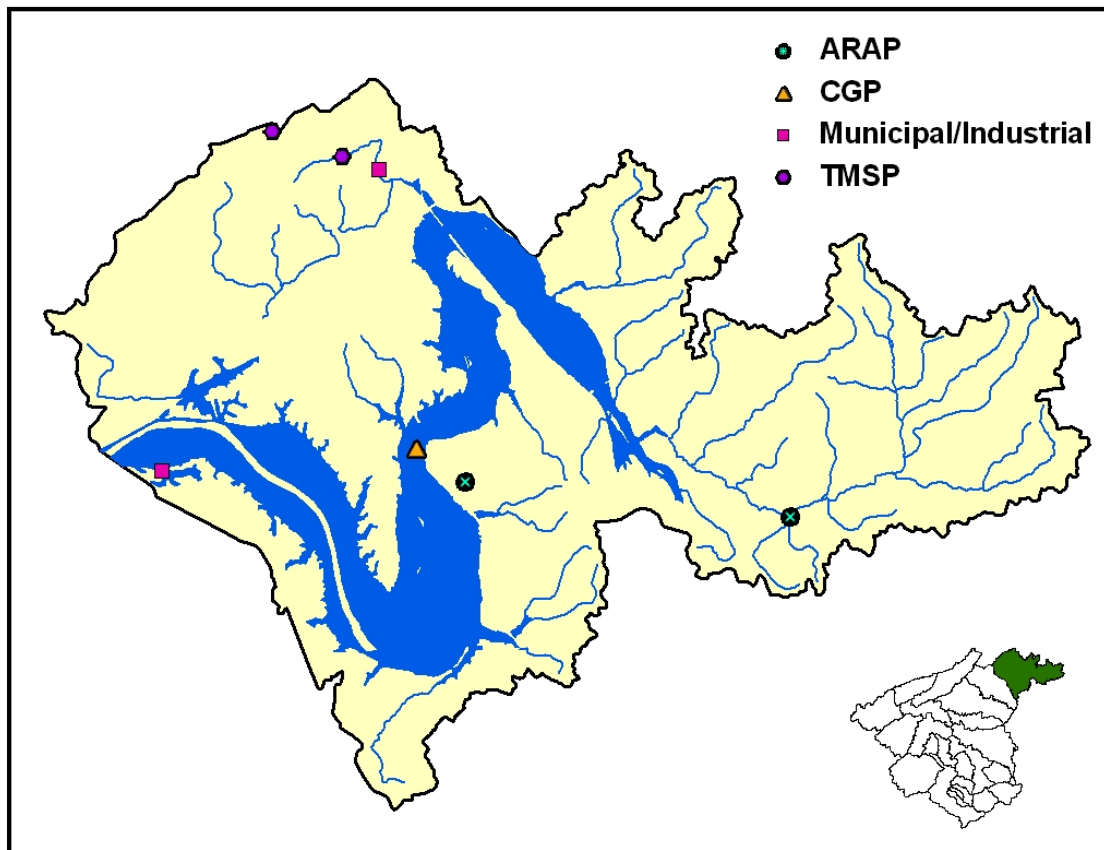


Figure 4-8. Location of Permits Issued in Subwatershed 060101070101. More information, including the names of facilities, is provided in Appendix IV.

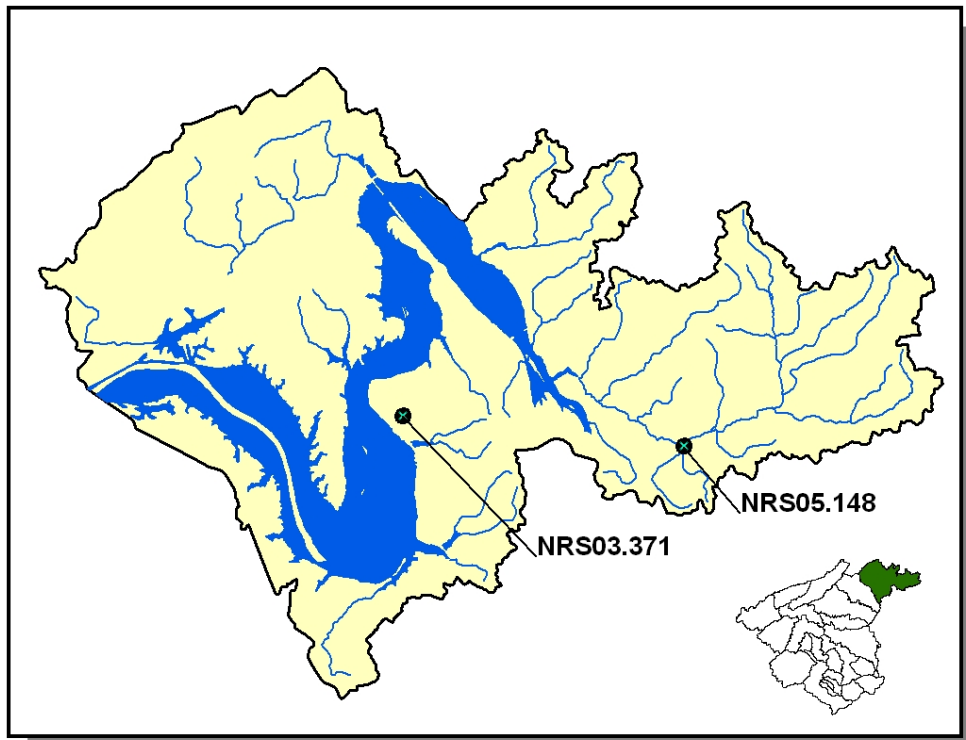


Figure 4-9. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070101. More information is provided in Appendix IV.

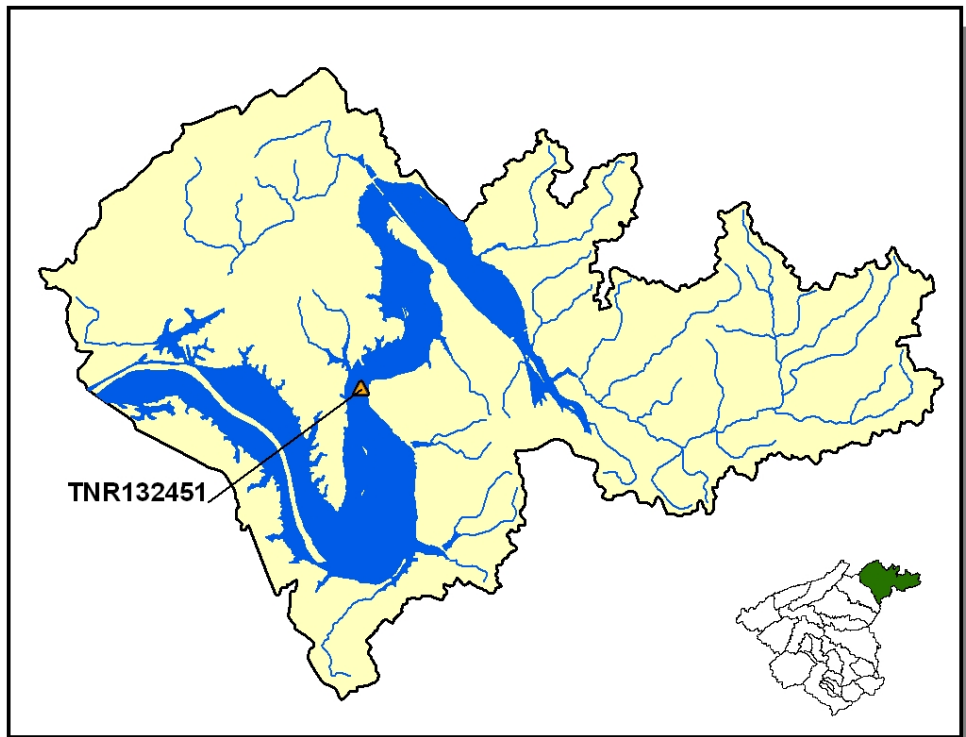


Figure 4-10. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070101. More information is provided in Appendix IV.

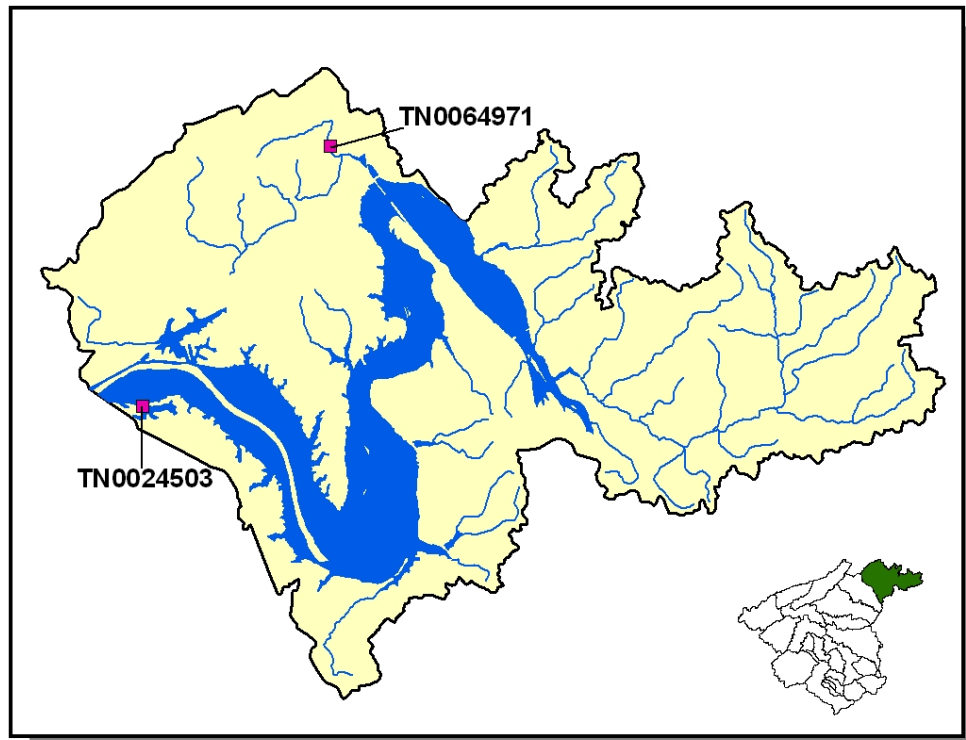


Figure 4-11. Location of Permitted Municipal and Industrial Facilities in Subwatershed 060101070101. More information, including the name of the facility is provided in Appendix IV.

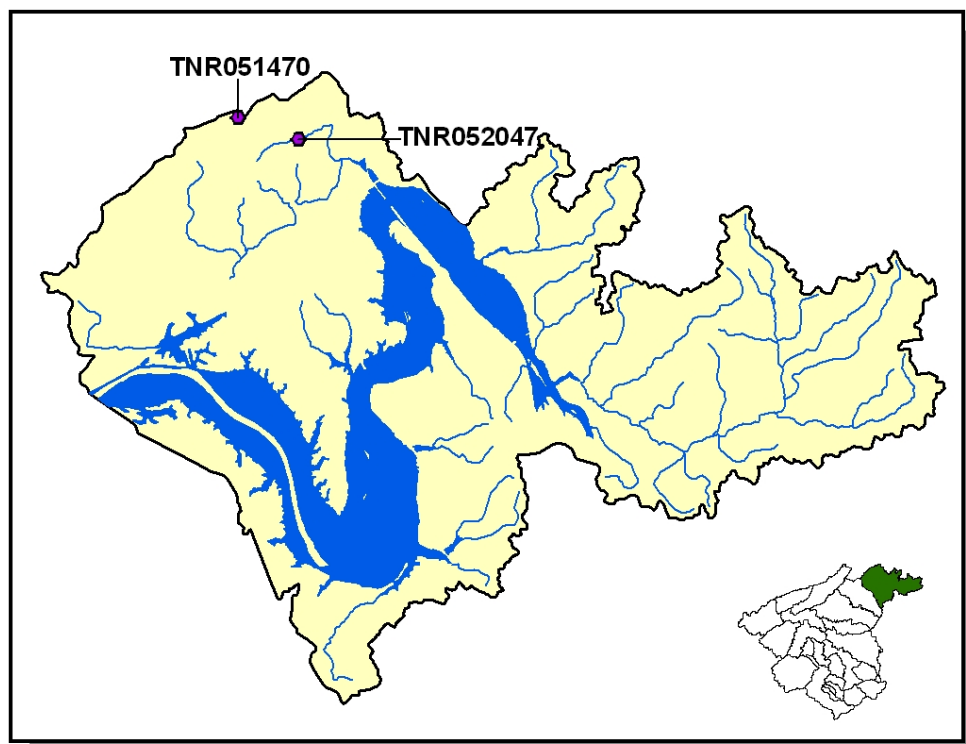


Figure 4-12. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070101. More information is provided in Appendix IV.

4.2.A.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cocke	8,169	16,971	1,224	361	269	90
Jefferson	16,126	35,718	1,878	1,633	183	567

Table 4-5. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cocke	182.0	163.4	3.7	17.4
Jefferson	62.2	62.2	0.6	1.8

Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	13.60
Oats (Close Grown Cropland)	13.51
Tobacco (Row Crops)	10.26
Wheat (Close Grown Cropland)	5.30
Grass Forbs Legumes Mixed (Pastureland)	0.67
Grass (Pastureland)	0.44
Grass (Hayland)	0.38
Farmsteads and Ranch Headquarters	0.29
Legume Grass (Hayland)	0.21

Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 060101070101.

4.2.B. 060101070102 (Douglas Lake, Middle).

4.2.Bi. General Description

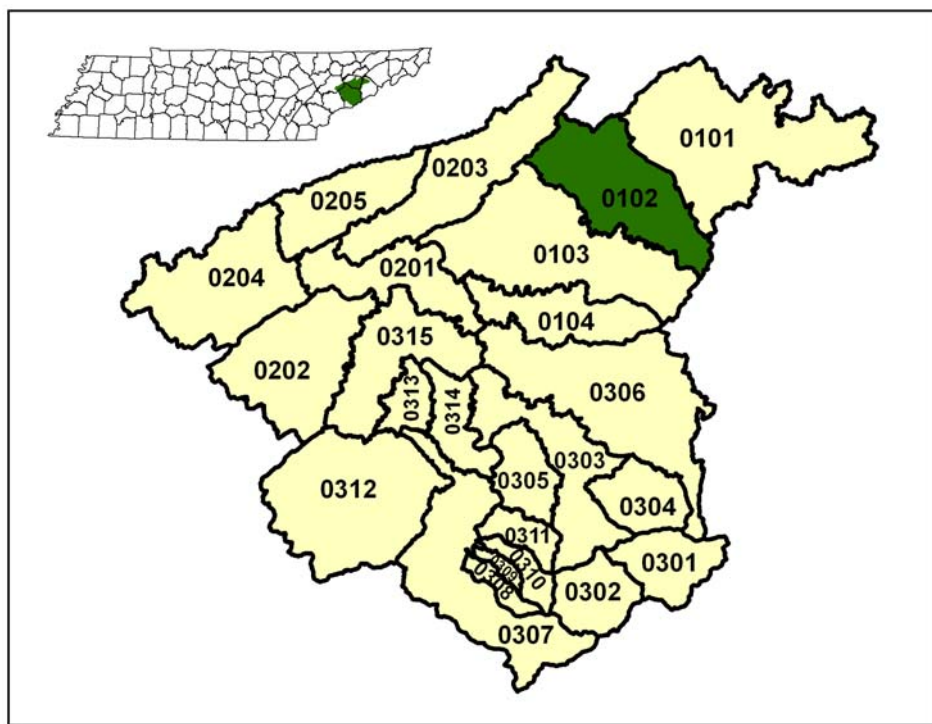


Figure 4-13. Location of Subwatershed 060101070102. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

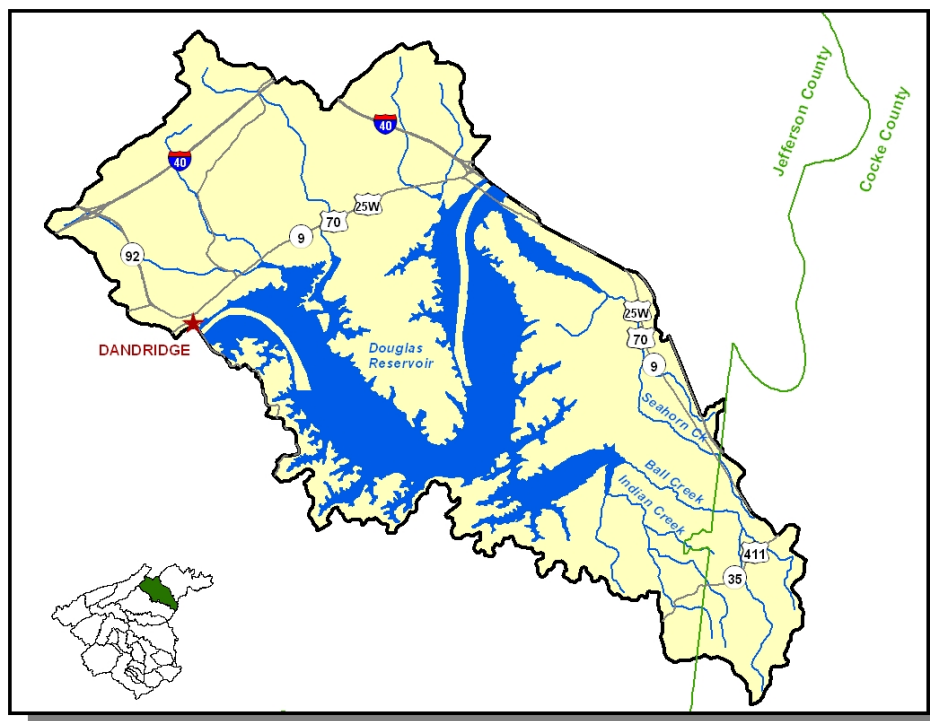


Figure 4-14. Locational Details of Subwatershed 060101070102.

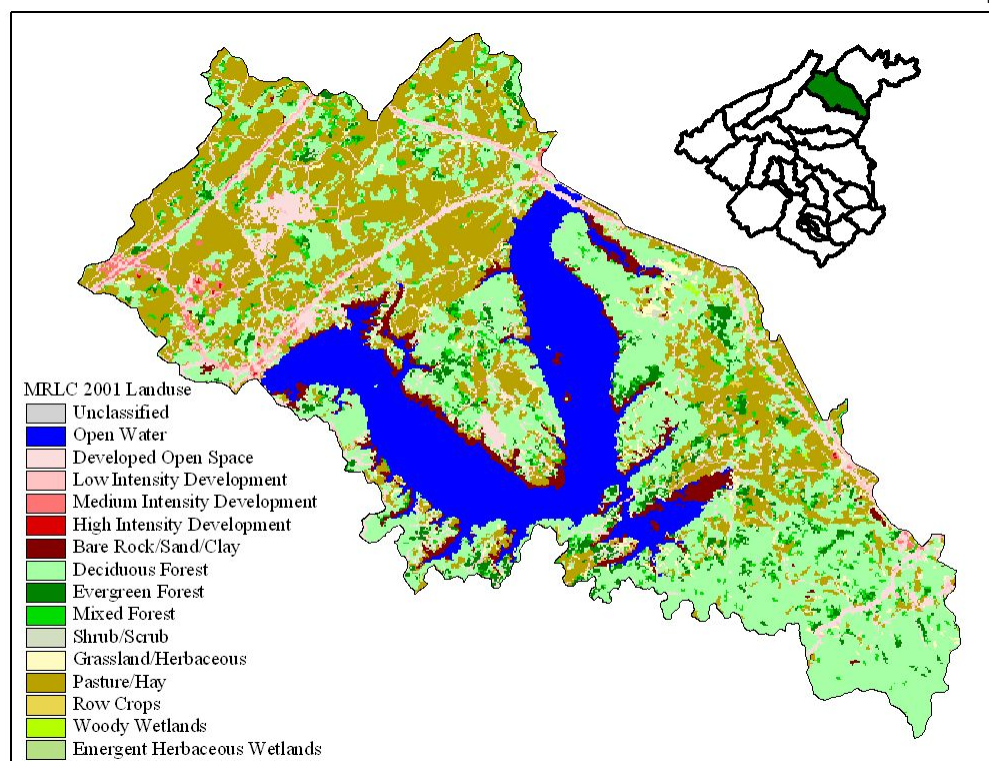


Figure 4-15. Illustration of Land Use Distribution in Subwatershed 060101070102.

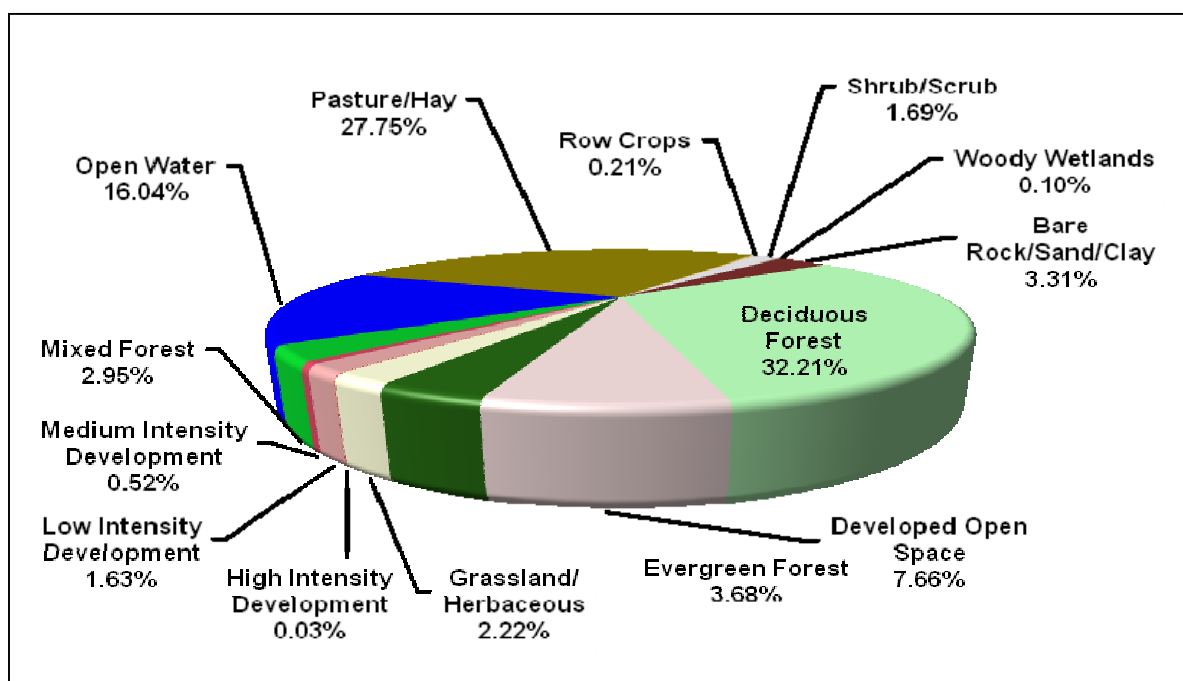


Figure 4-16. Land Use Distribution in Subwatershed 060101070102. More information is provided in Appendix IV.

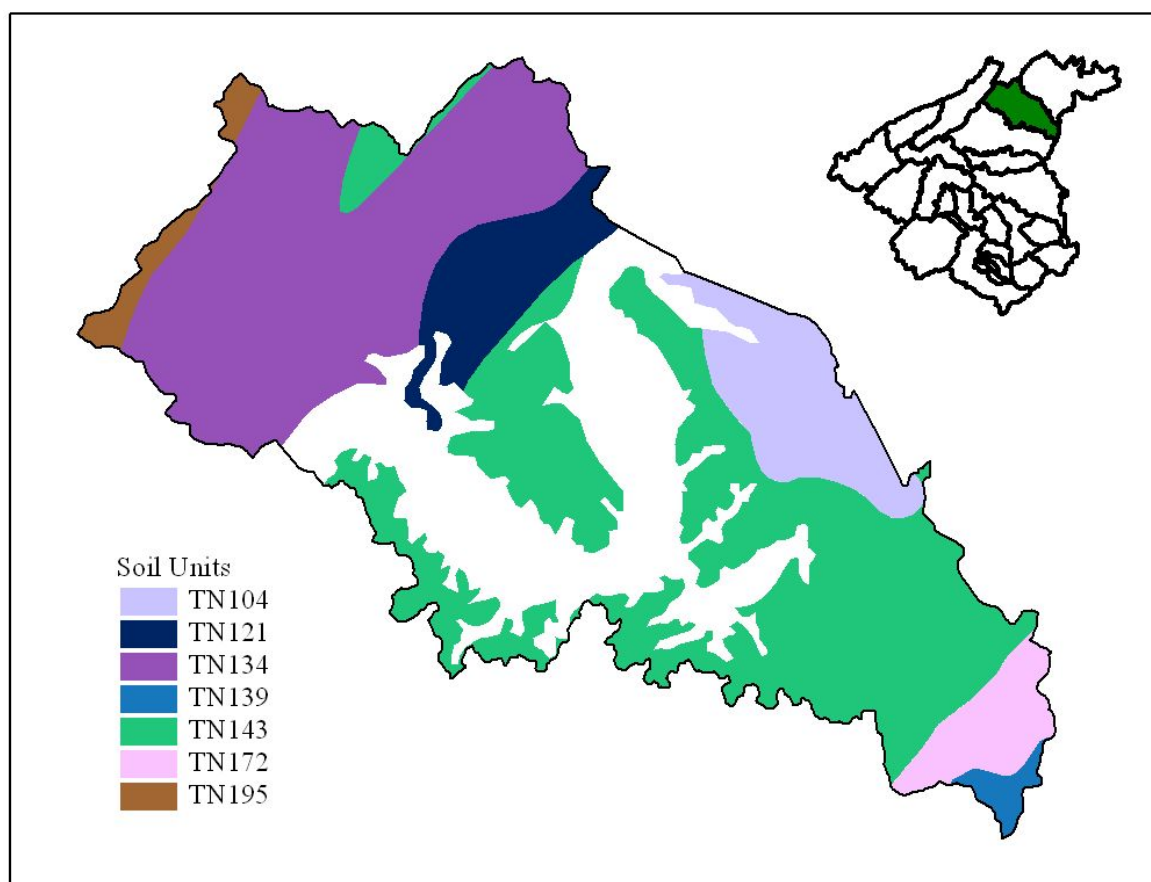


Figure 4-17. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN104	1.00	C	1.20	5.23	Silty Loam	0.38
TN121	0.00	B	1.30	5.21	Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20

Table 4-8. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070102. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Cocke	29,141	31,657	33,565	0.68	198	215	228	15.20
Jefferson	33,016	42,168	44,294	13.85	4,572	5,839	6,134	34.20
Totals	62,157	73,825	77,859		4,770	6,054	6,362	33.40

Table 4-9. Population Estimates in Subwatershed 060101070102.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Dandridge	Jefferson	1,540	625	376	247	2

Table 4-10. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070102.

4.2.B.ii STORET Sites

There are no USGS continuous records gaging stations located in subwatershed 060101070102.

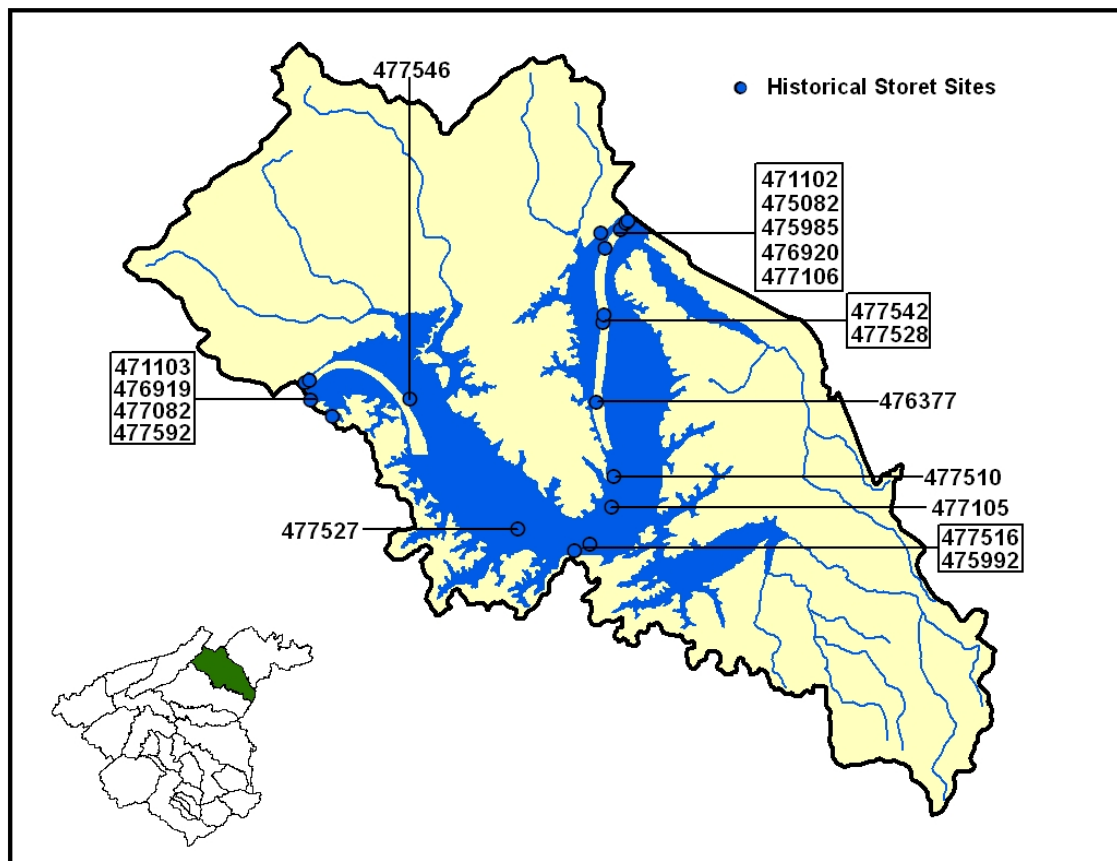


Figure 4-18. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070102. More information, including site names and locations, is provided in Appendix IV.

4.2.B.iii. Permitted Activities.

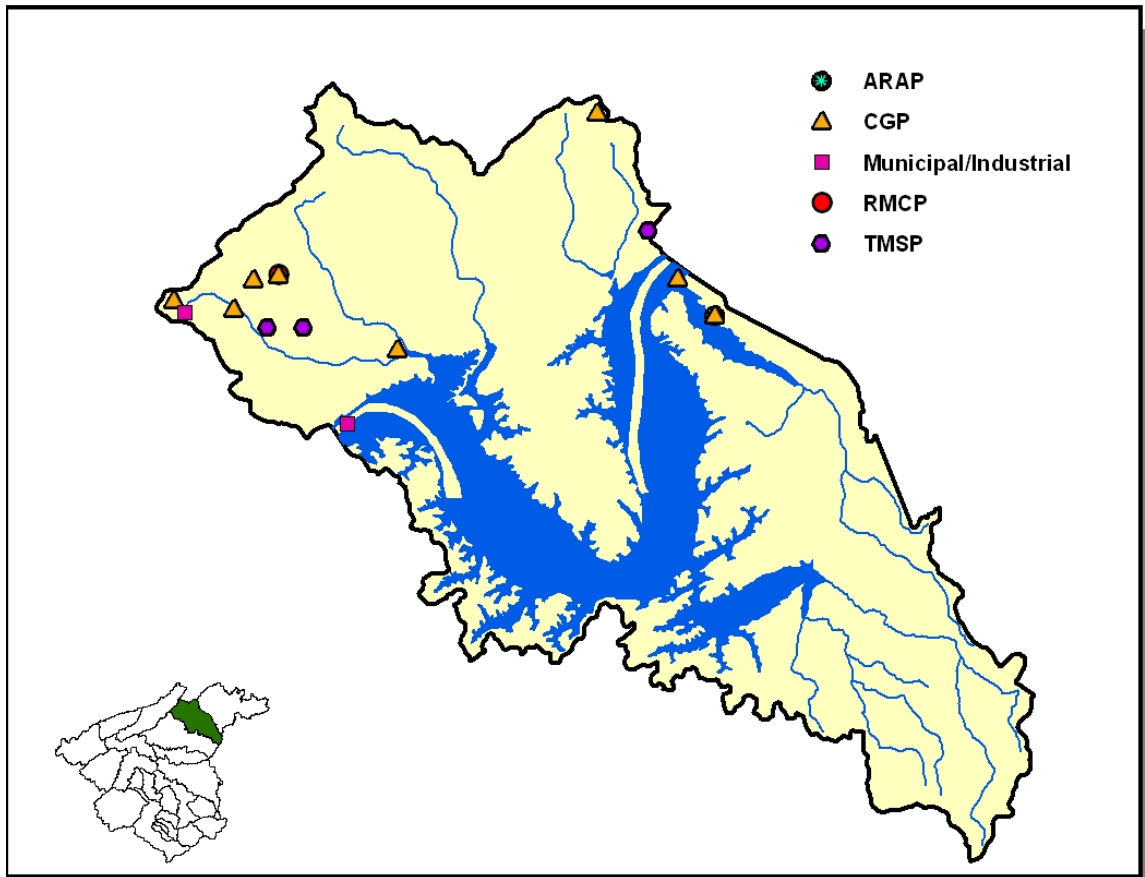


Figure 4-19. Location of Permits Issued in Subwatershed 060101070102. More information, including the names of facilities, is provided in Appendix IV.

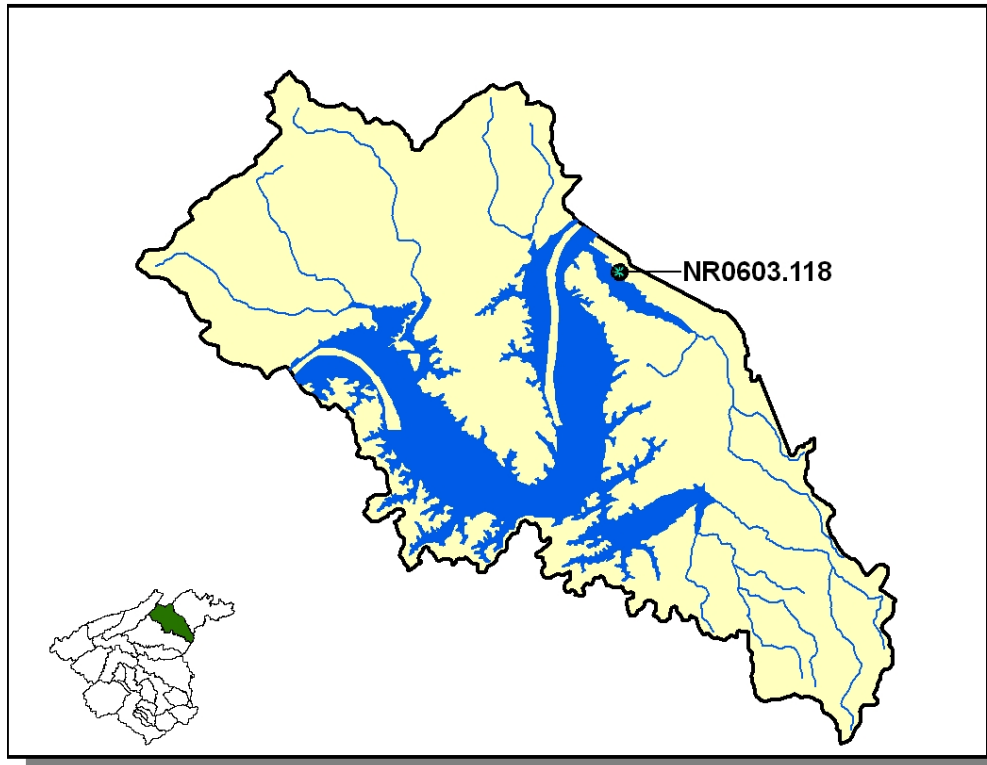


Figure 4-20. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070102. More information is provided in Appendix IV.

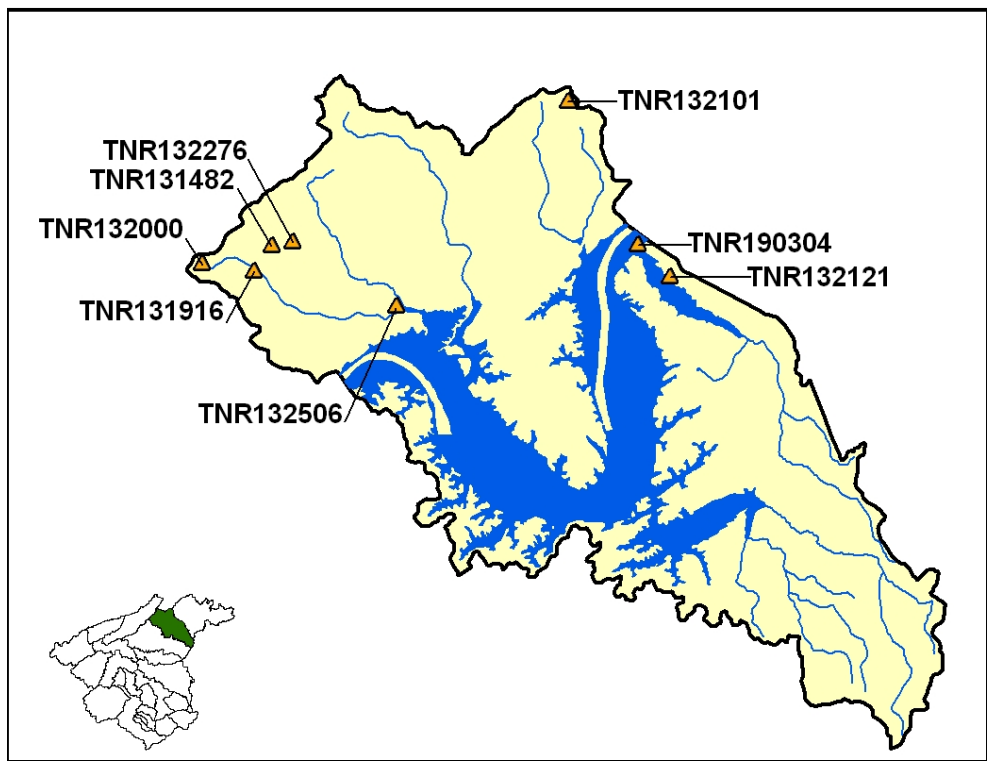


Figure 4-21. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070102. More information is provided in Appendix IV.

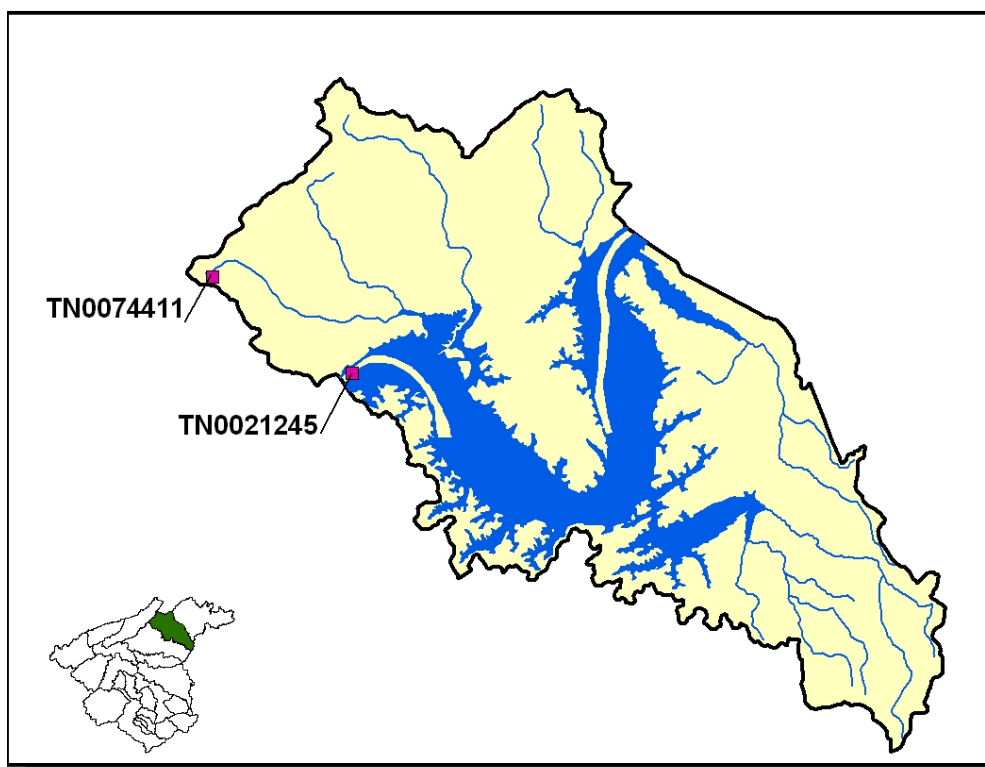


Figure 4-22. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070102. More information, including the name of the facility is provided in Appendix IV.

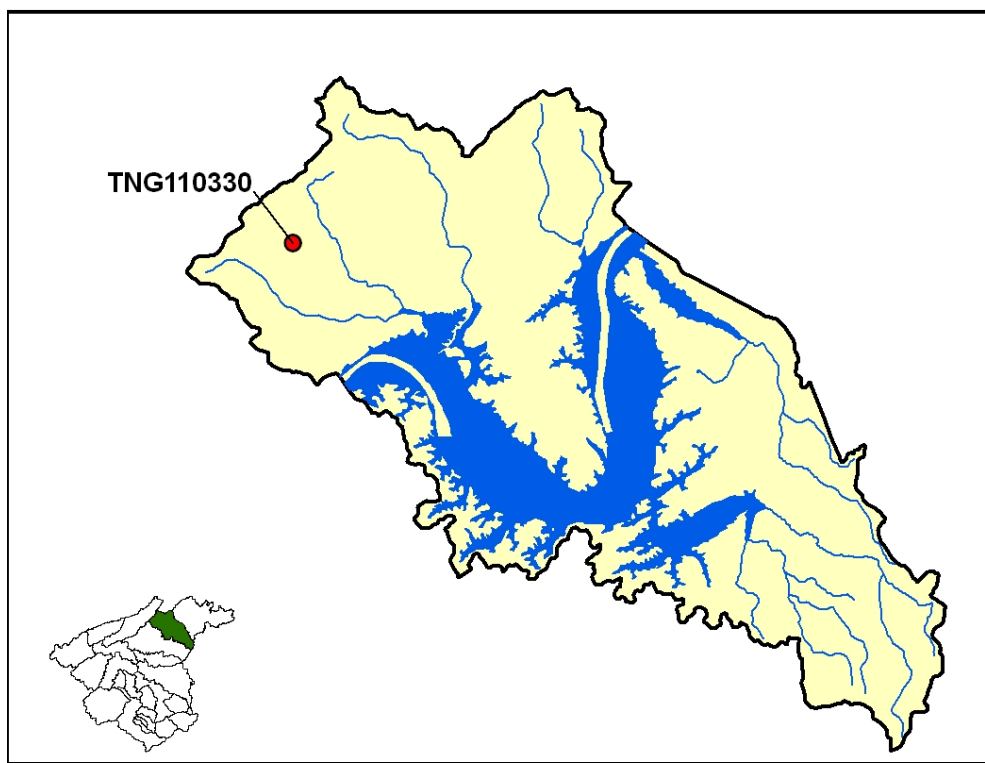


Figure 4-23. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070102. More information, including the names of facilities, is provided in Appendix IV.

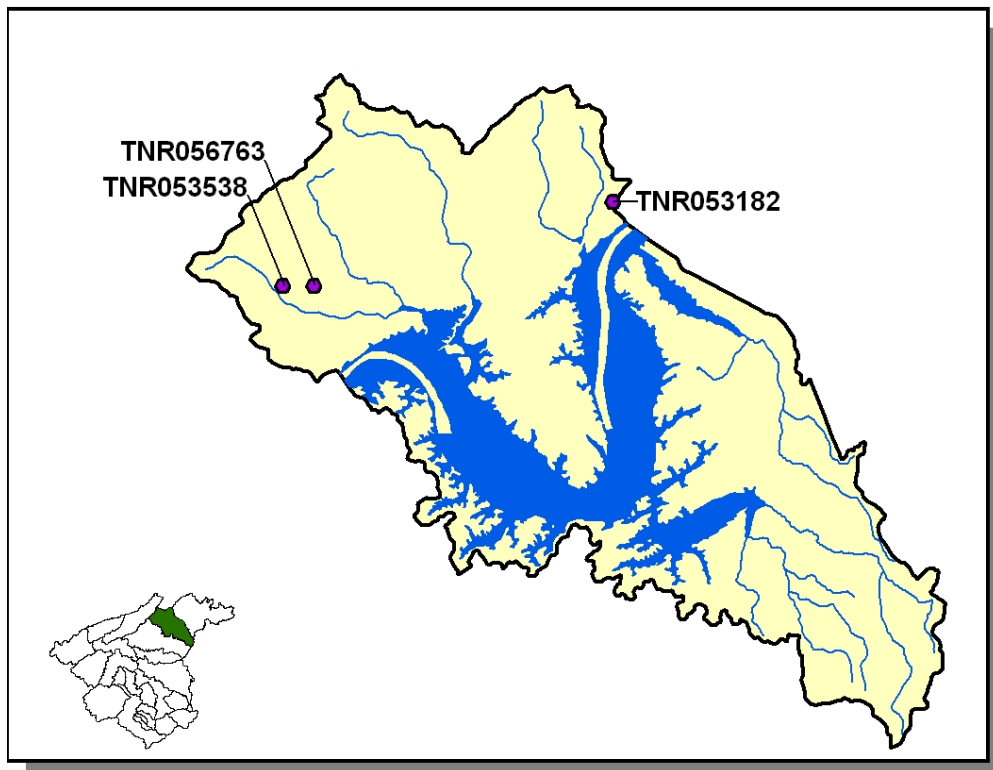


Figure 4-24. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070102. More information is provided in Appendix IV.

4.2.B.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cocke	8,169	16,971	1,224	361	269	90
Jefferson	16,126	35,718	1,878	1,633	183	567

Table 4-11. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cocke	182.0	163.4	3.7	17.4
Jefferson	62.2	62.2	0.6	1.8

Table 4-12. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	21.73
Oats (Close Grown Cropland)	13.51
Wheat (Close Grown Cropland)	5.30
Tobacco (Row Crops)	3.84
Grass (Pastureland)	0.54
Grass Forbs Legumes Mixed (Pastureland)	0.46
Legume Grass (Hayland)	0.36
Grass (Hayland)	0.25
Farmsteads and Ranch Headquarters	0.03

Table 4-13. Annual Estimated Total Soil Loss in Subwatershed 060101070102.

4.2.C. 060101070103 (Douglas Lake, Lower)

4.2.C.i. General Description

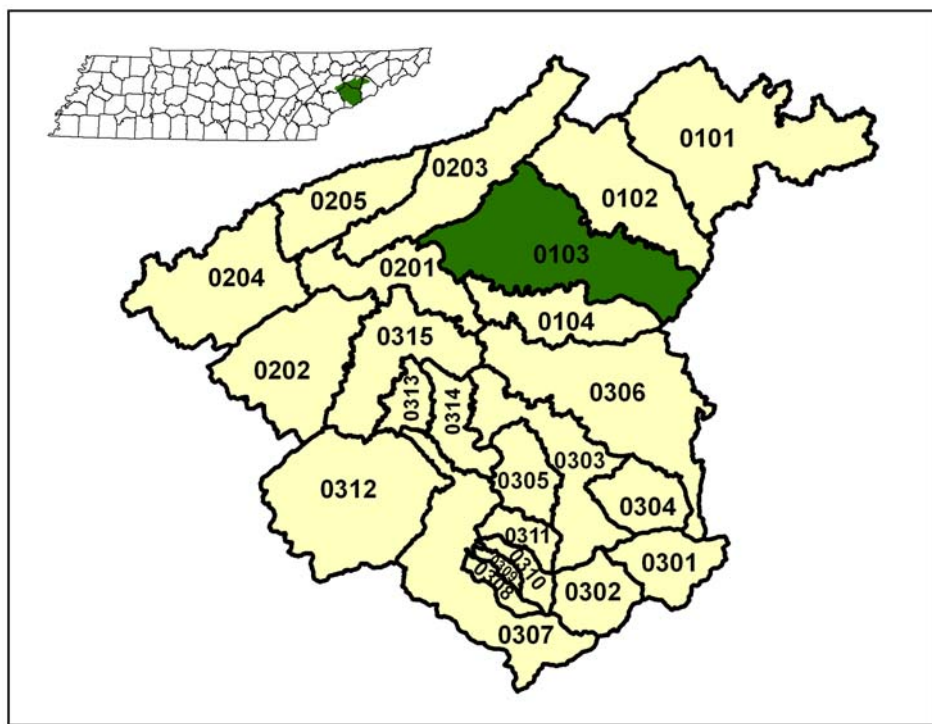


Figure 4-25. Location of Subwatershed 060101070103. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

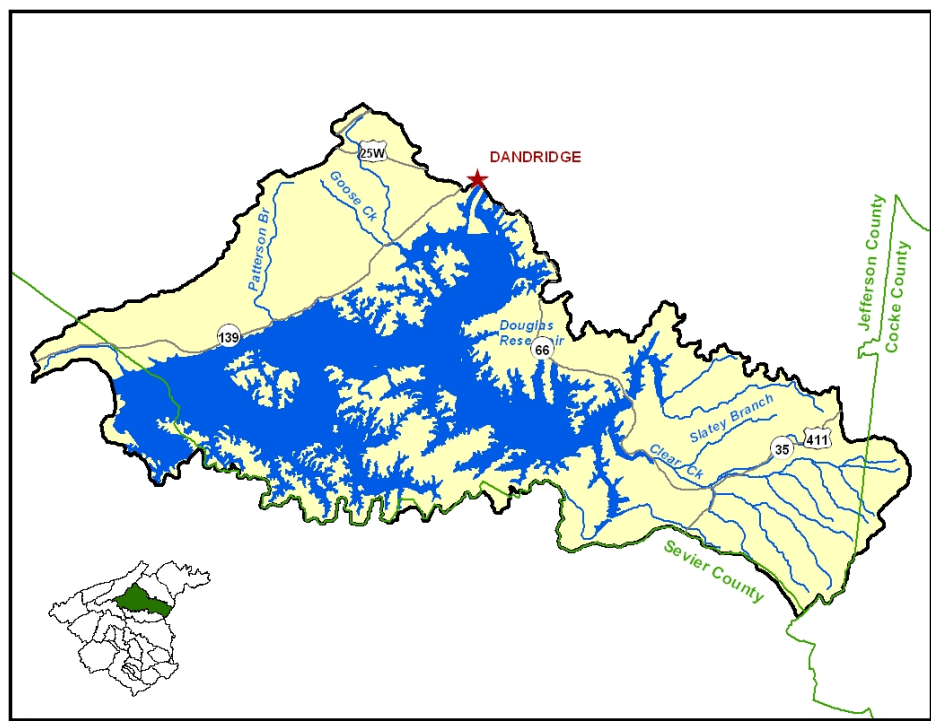


Figure 4-26. Locational Details of Subwatershed 060101070103.

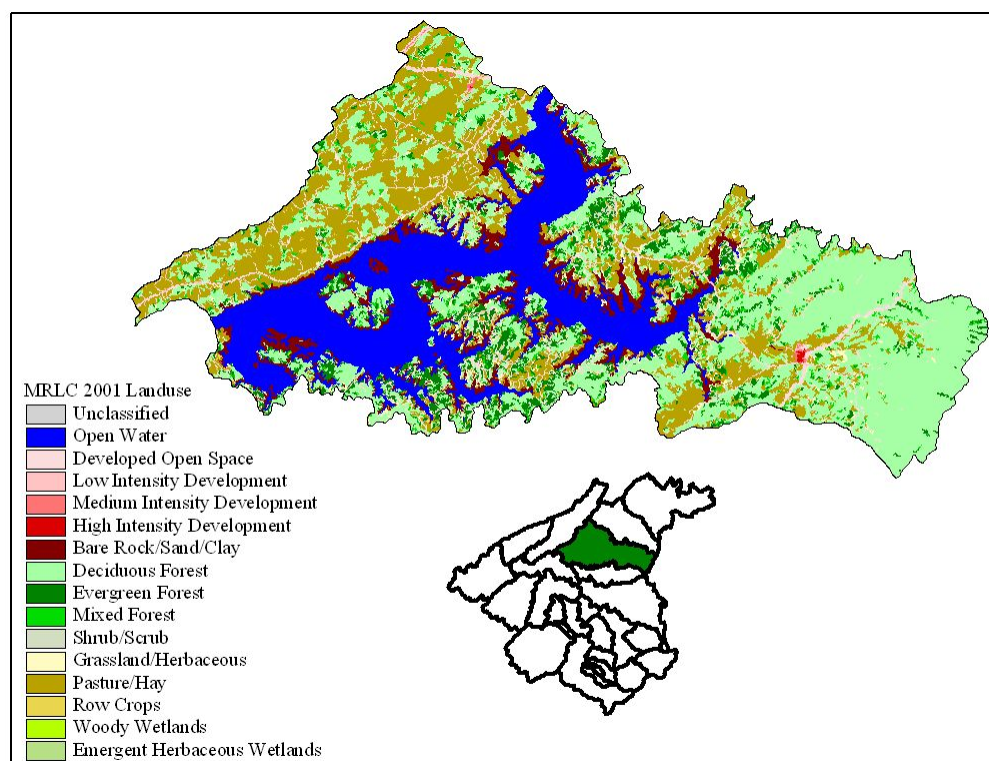


Figure 4-27. Illustration of Land Use Distribution in Subwatershed 060101070103.

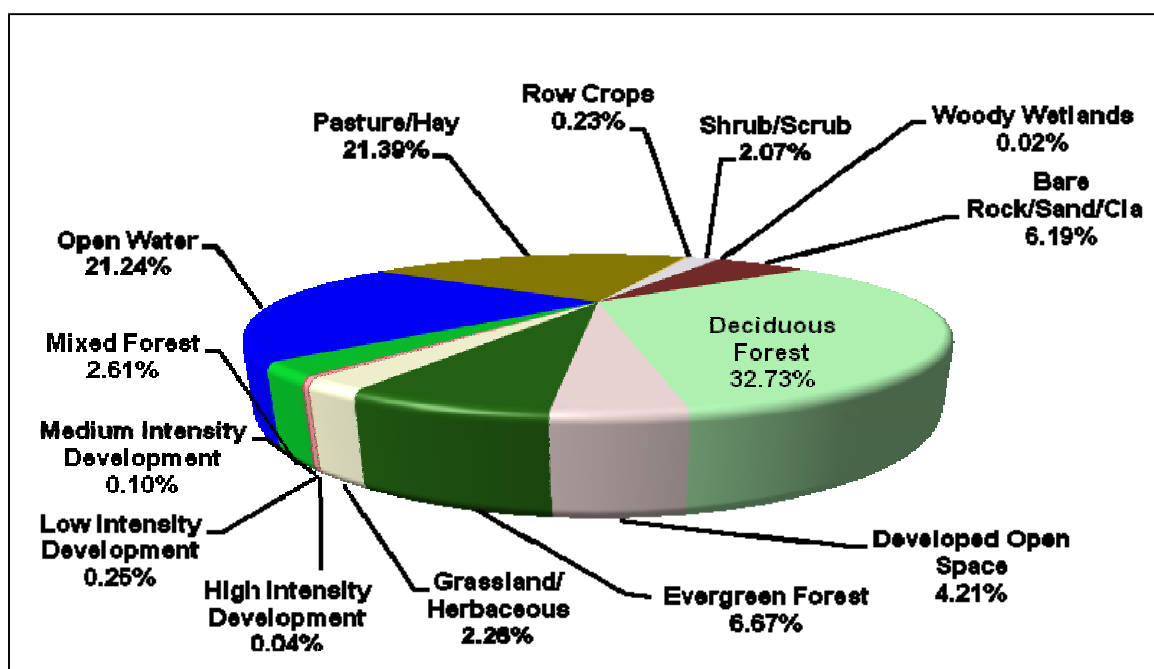


Figure 4-28. Land Use Distribution in Subwatershed 060101070103. More information is provided in Appendix IV.

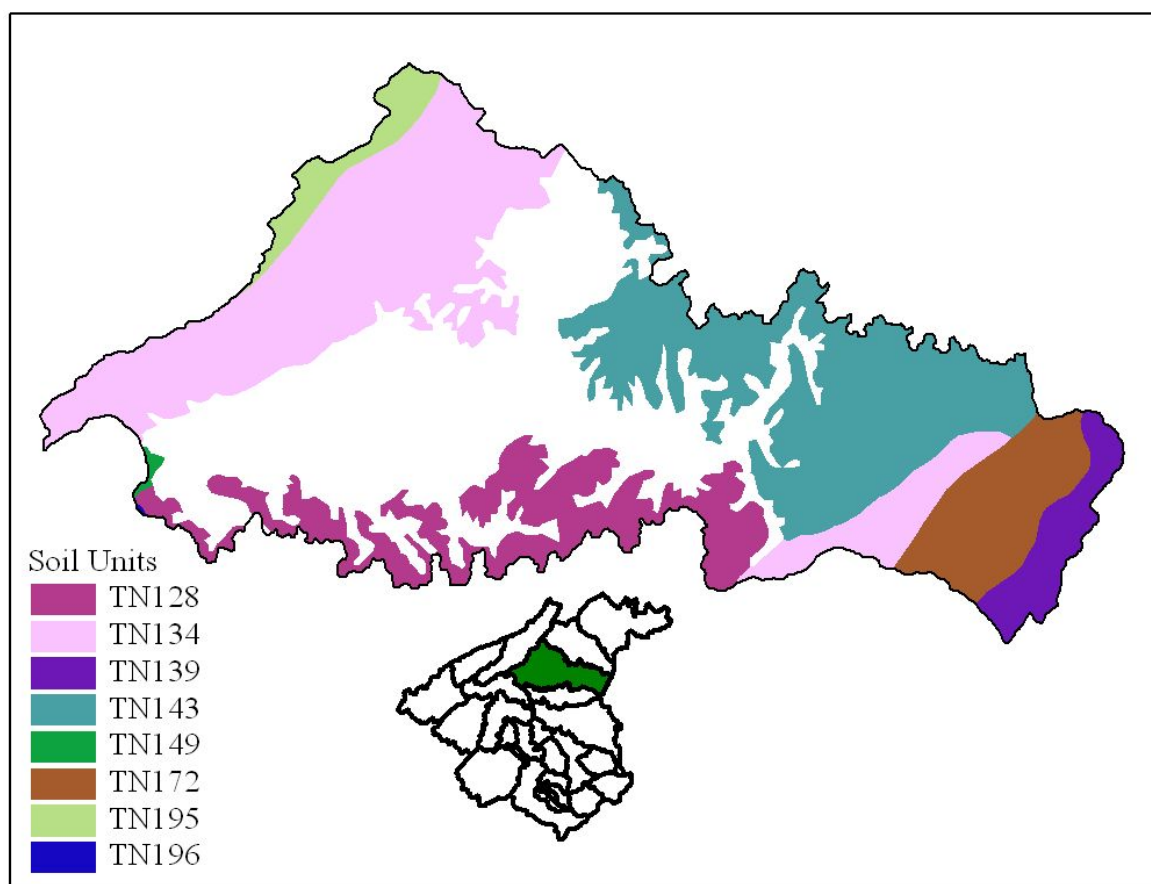


Figure 4-29. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070103.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN143	0.00	C	1.22	6.44	Loam	0.32

Table 4-14. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070103. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Cocke	29,141	31,657	33,565	0.22	63	69	73	15.90
Jefferson	33,016	42,168	44,294	19.22	6,346	8,105	8,514	34.20
Sevier	51,043	62,774	71,170	1.13	576	709	804	39.60
Totals	113,200	136,599	149,029		6,985	8,883	9,391	34.40

Table 4-15. Population Estimates in Subwatershed 060101070103.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Dandridge	Jefferson	1,540	625	376	247	2

Table 4-16. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070103.

4.2.C.ii. STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070103.

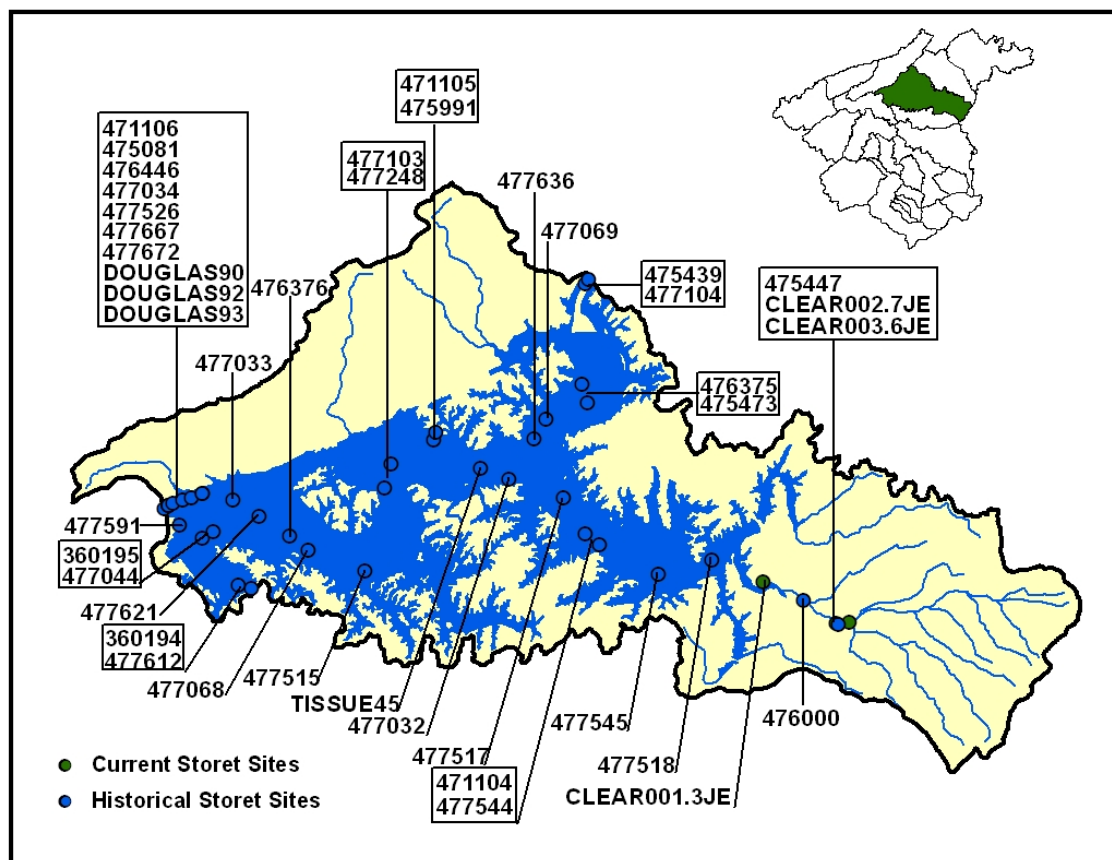


Figure 4-30. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070103. More information, including site names and locations, is provided in Appendix IV.

4.2.C.iii. Permitted Activities

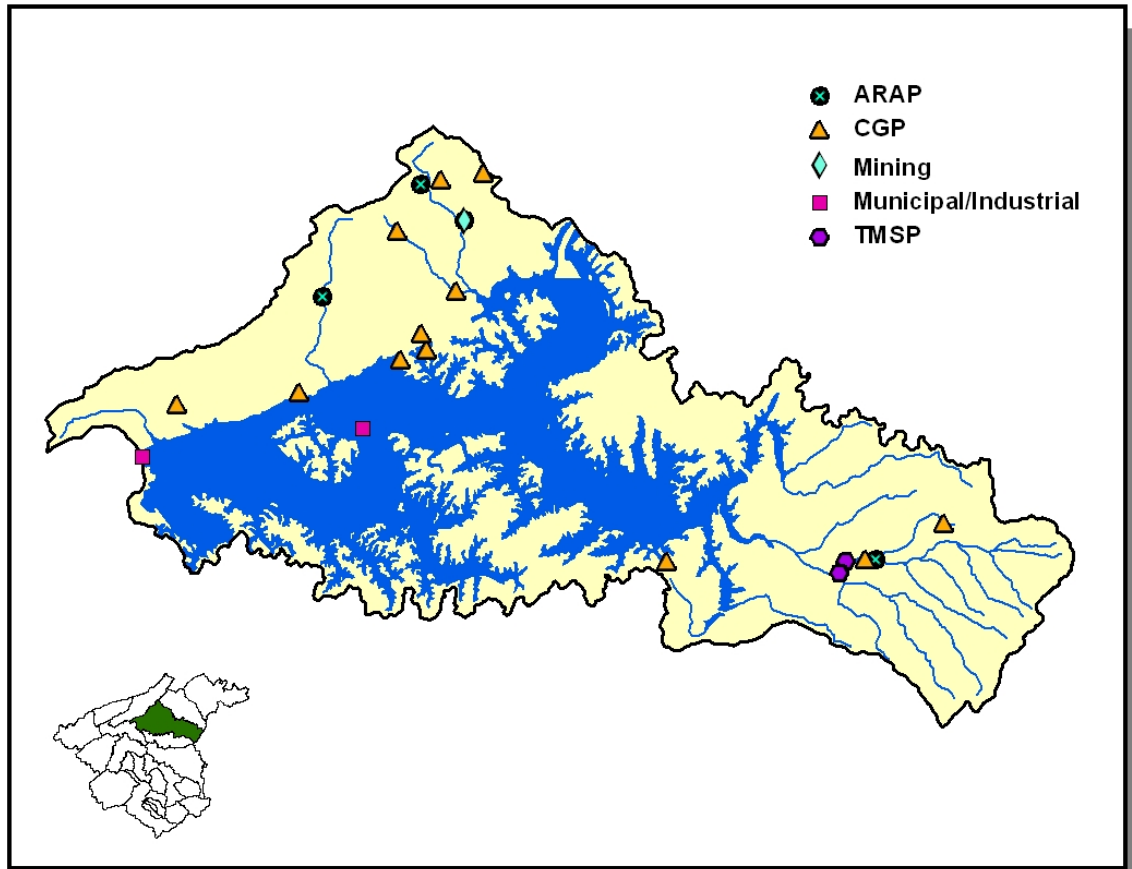


Figure 4-31. Location of Permits Issued in Subwatershed 060101070103. More information, including the names of facilities, is provided in Appendix IV.

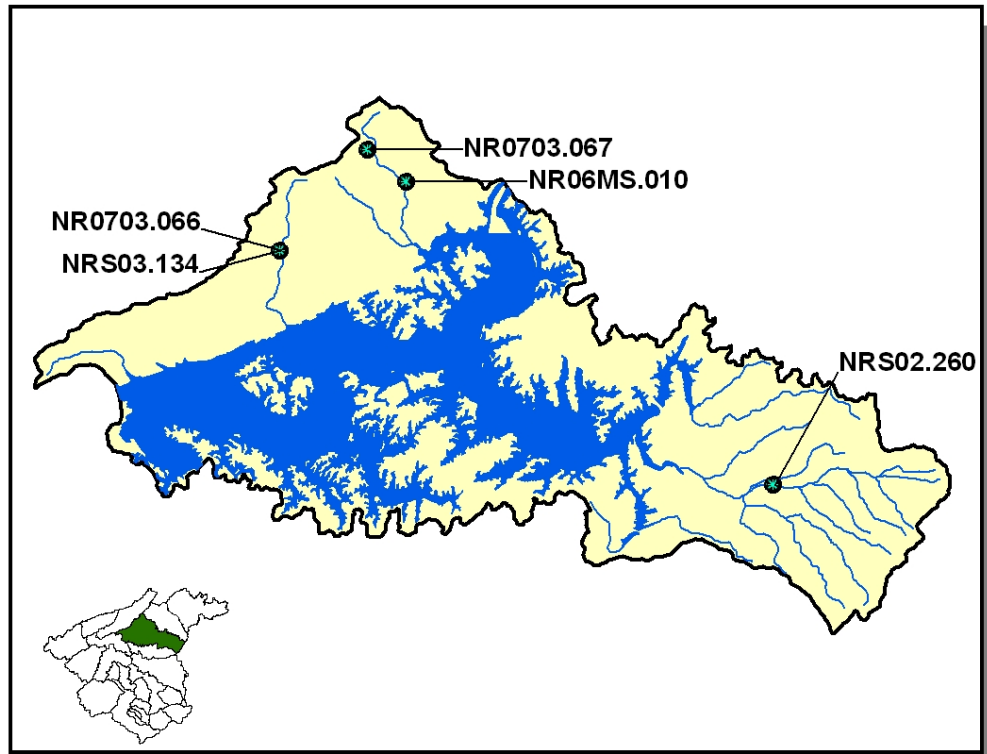


Figure 4-32. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070103. More information is provided in Appendix IV.

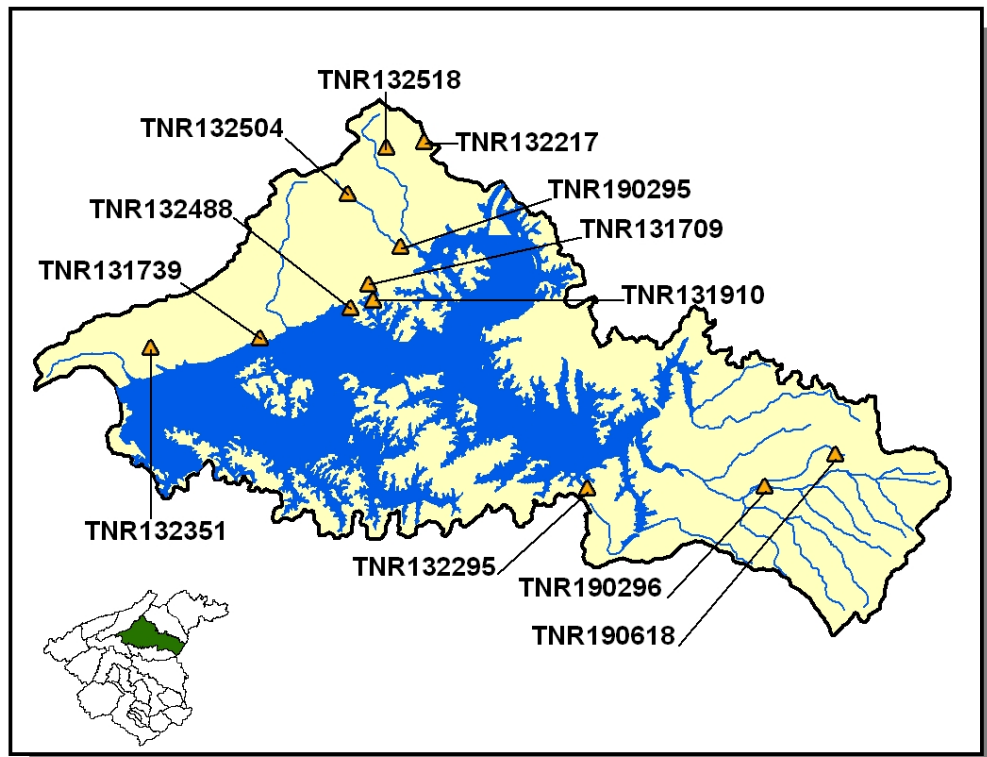


Figure 4-33. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070103. More information is provided in Appendix IV.

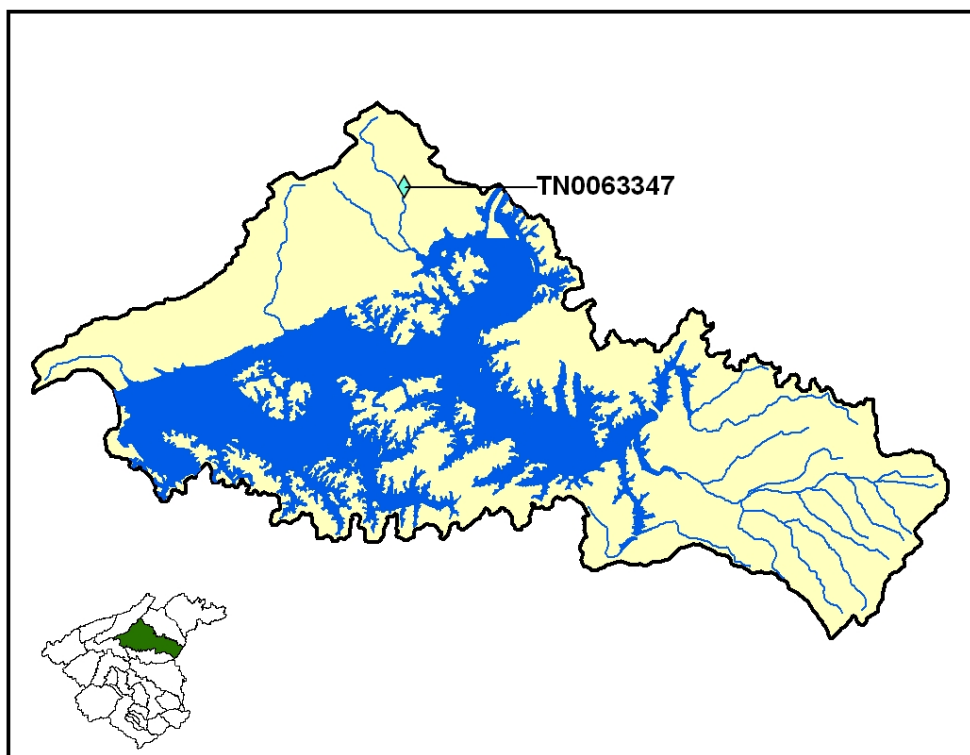


Figure 4-34. Location of permitted MINING facilities in Subwatershed 060101070103. More information is provided in Appendix IV.

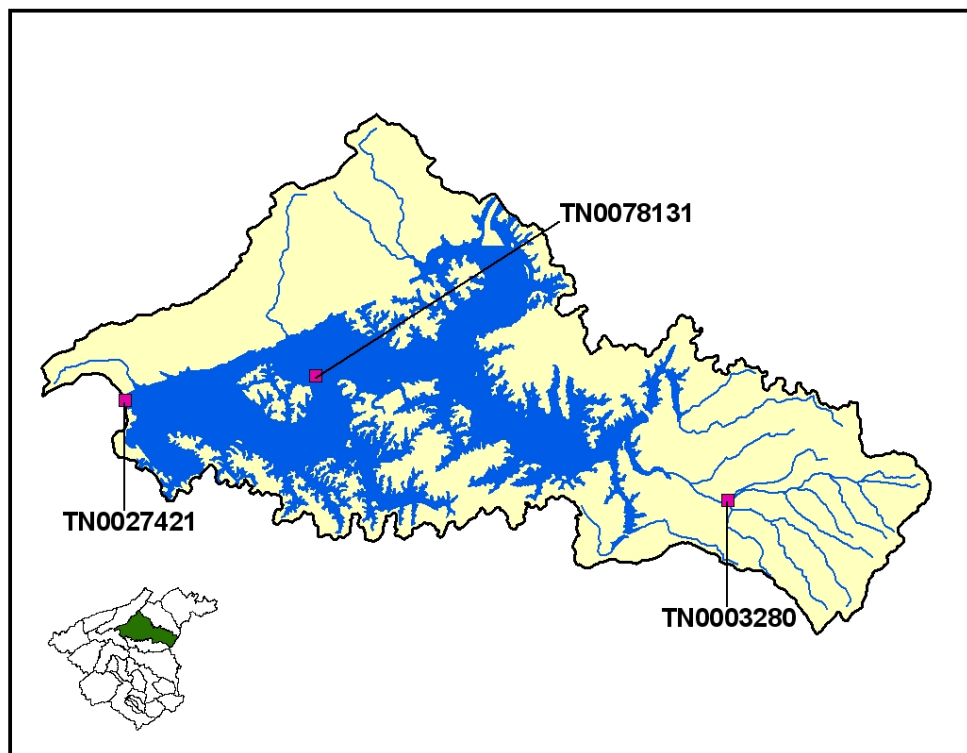


Figure 4-35. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070103. More information, including the name of the facility is provided in Appendix IV.

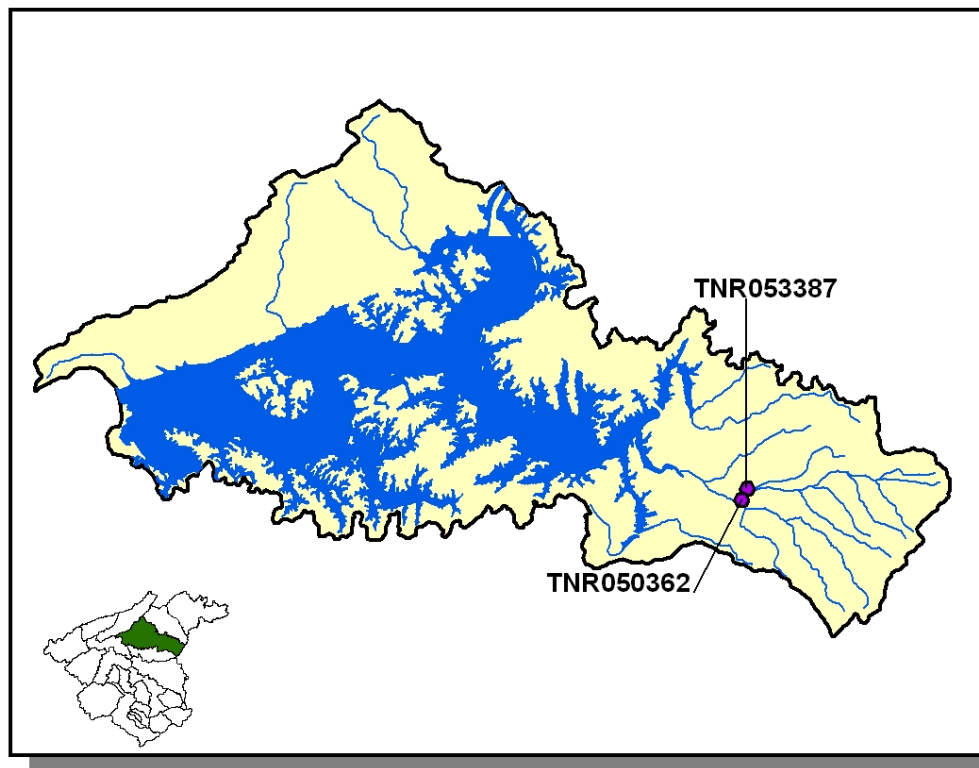


Figure 4-36. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070103. More information is provided in Appendix IV.

4.2.C.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cocke	8,169	16,971	1,224	361	269	90
Jefferson	16,126	35,718	1,878	1,633	183	567
Sevier	9,816	19,013	172	26	394	234

Table 4-17. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cocke	182.0	163.4	3.7	17.4
Jefferson	62.2	62.2	0.6	1.8
Sevier	254.5	127.4	0.3	0.9

Table 4-18. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	20.79
Oats (Close Grown Cropland)	13.51
Wheat (Close Grown Cropland)	9.00
Tobacco (Row Crops)	4.52
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.54
Grass Forbs Legumes Mixed (Pastureland)	0.44
Legume Grass (Hayland)	0.34
Grass (Hayland)	0.24
Farmsteads and Ranch Headquarters	0.03

Table 4-19. Annual Estimated Total Soil Loss in Subwatershed 060101070103.

4.2.D. 060101070104 (Mud Creek)

4.2.D.i. General Description

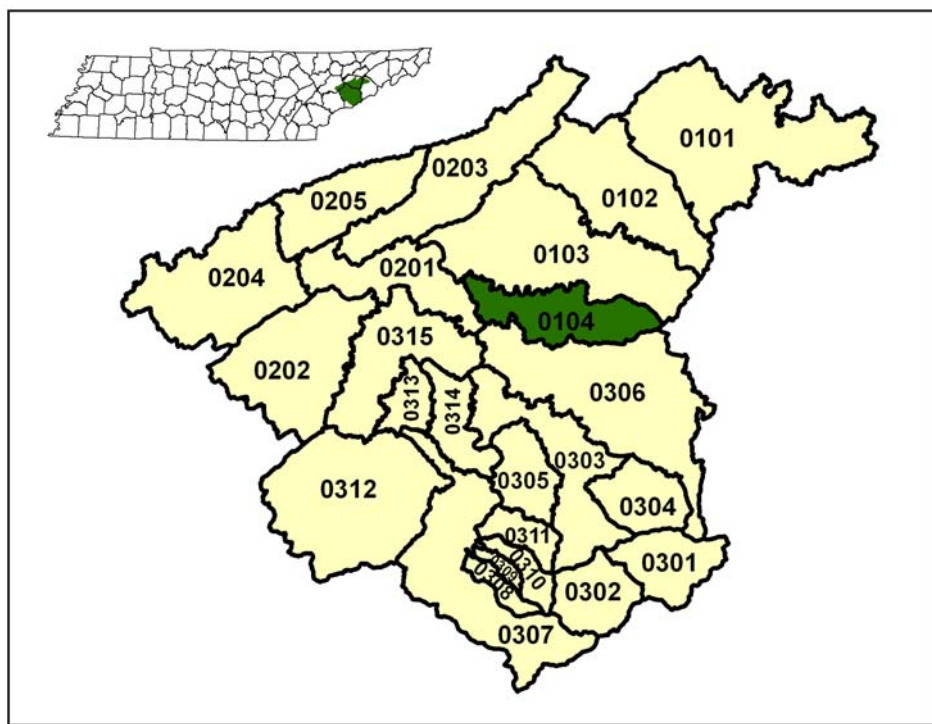


Figure 4-37. Location of Subwatershed 060101070104. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

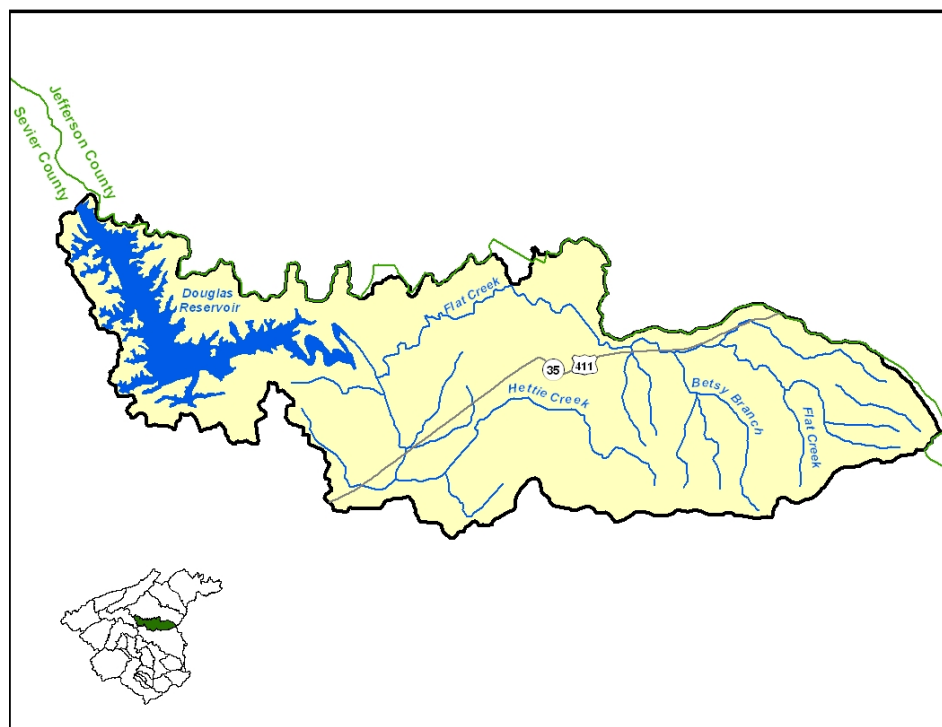


Figure 4-38 Locational Details of Subwatershed 060101070104

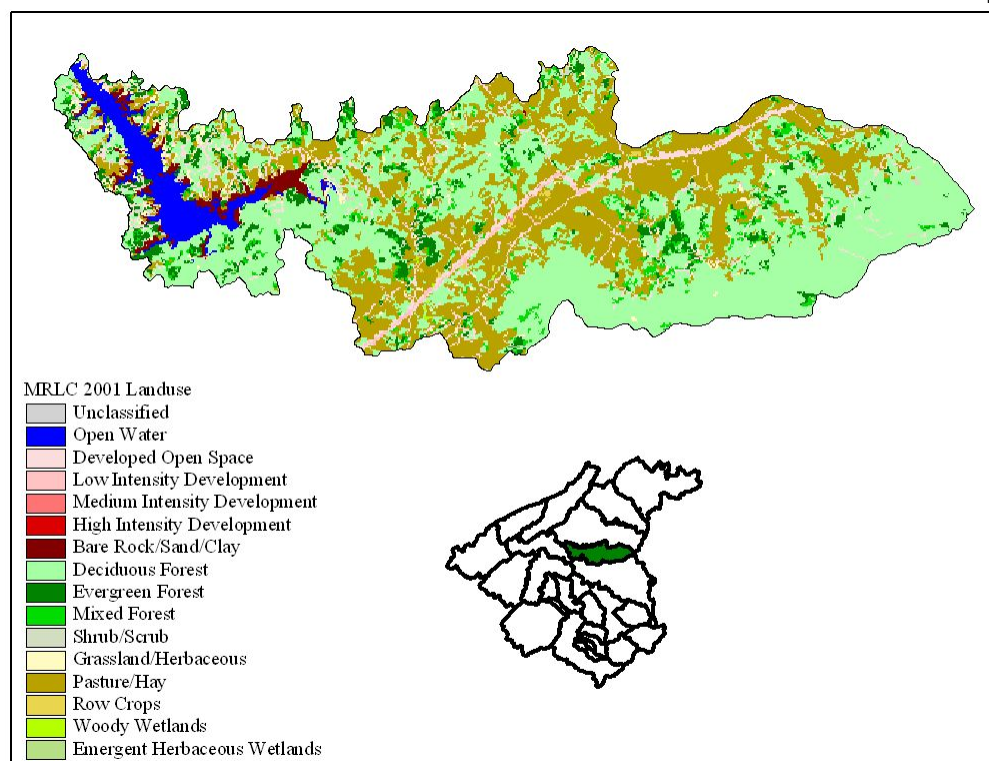


Figure 4-39. Illustration of Land Use Distribution in Subwatershed 060101070104.

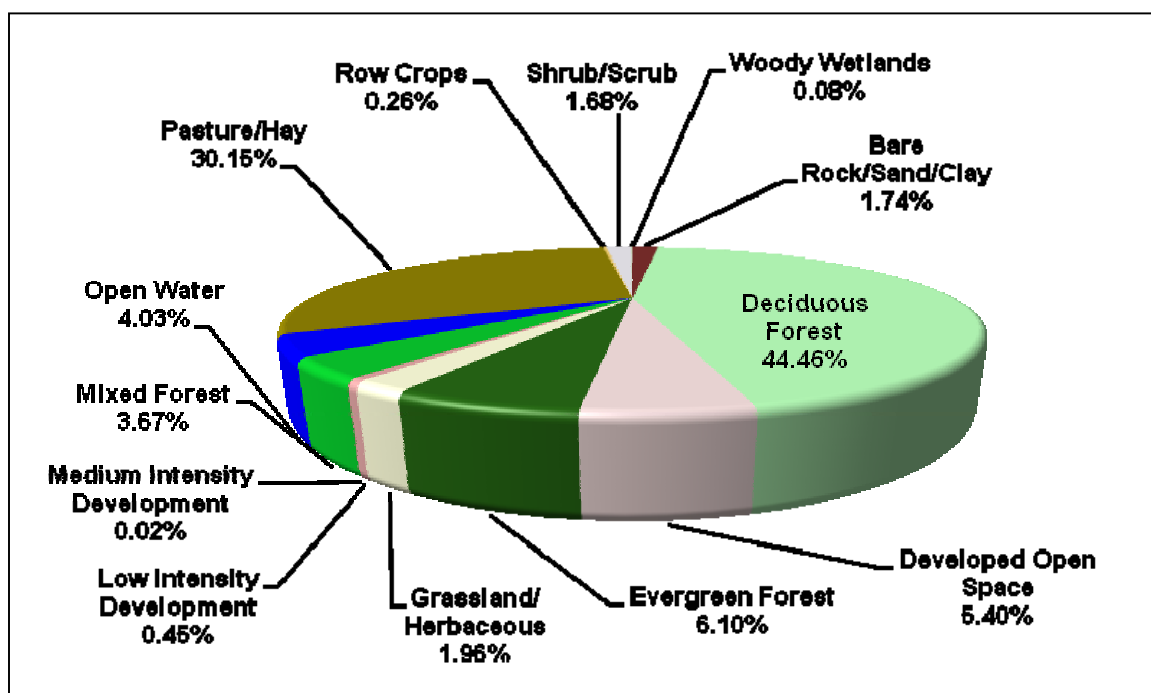


Figure 4-40. Land Use Distribution in Subwatershed 060101070104. More information is provided in Appendix IV.

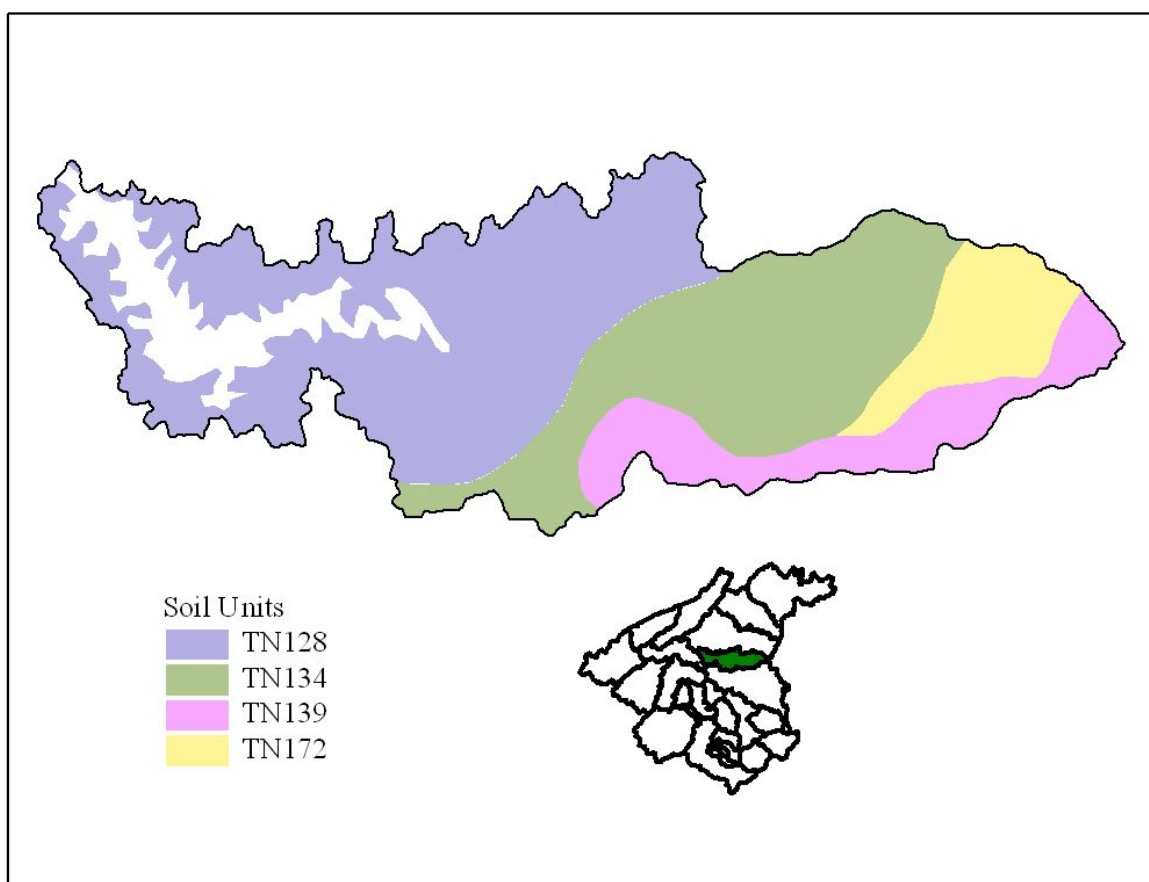


Figure 4-41. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070104.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN172	0.00	B	3.87	5.13	Loam	0.26

Table 4-20. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070104. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Jefferson	33,016	42,168	44,294	0.09	30	38	40	33.30
Sevier	51,043	62,774	71,170	4.37	2,232	2,746	3,113	39.50
Totals	84,059	104,942	115,464		2,262	2,784	3,153	39.40

Table 4-21. Population Estimates in Subwatershed 060101070104.

4.2.D.ii. STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070104.

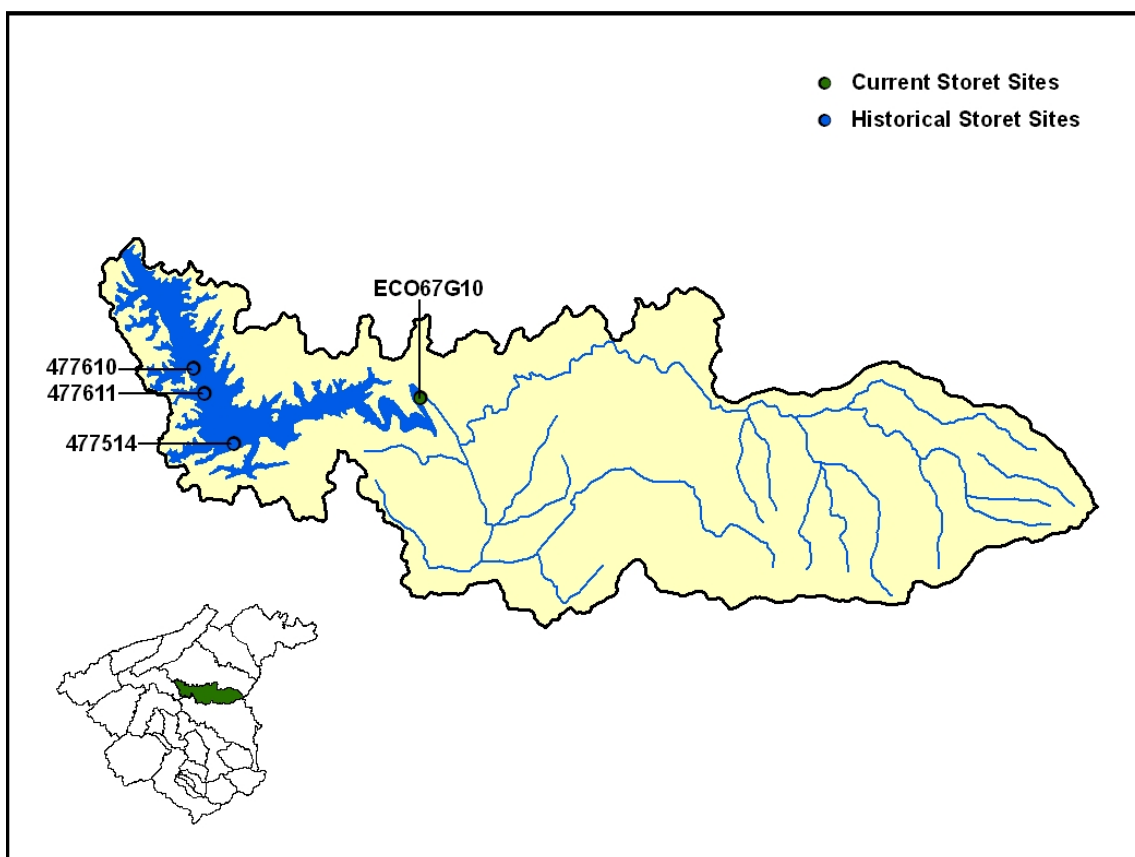


Figure 4-42. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070104. More information, including site names and locations, is provided in Appendix IV.

4.2.Diii. Permitted Activities.

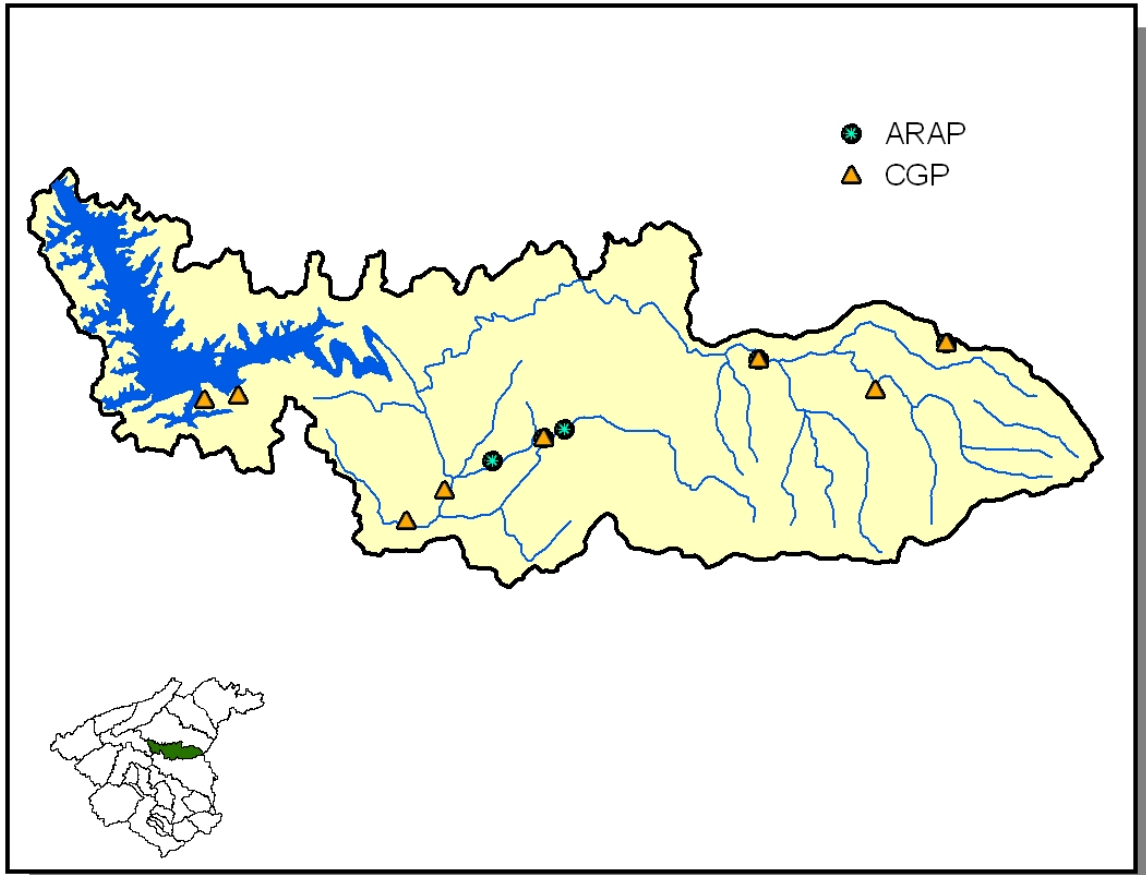


Figure 4-43. Location of Permits Issued in Subwatershed 060101070104. More information, including the names of facilities, is provided in Appendix IV.

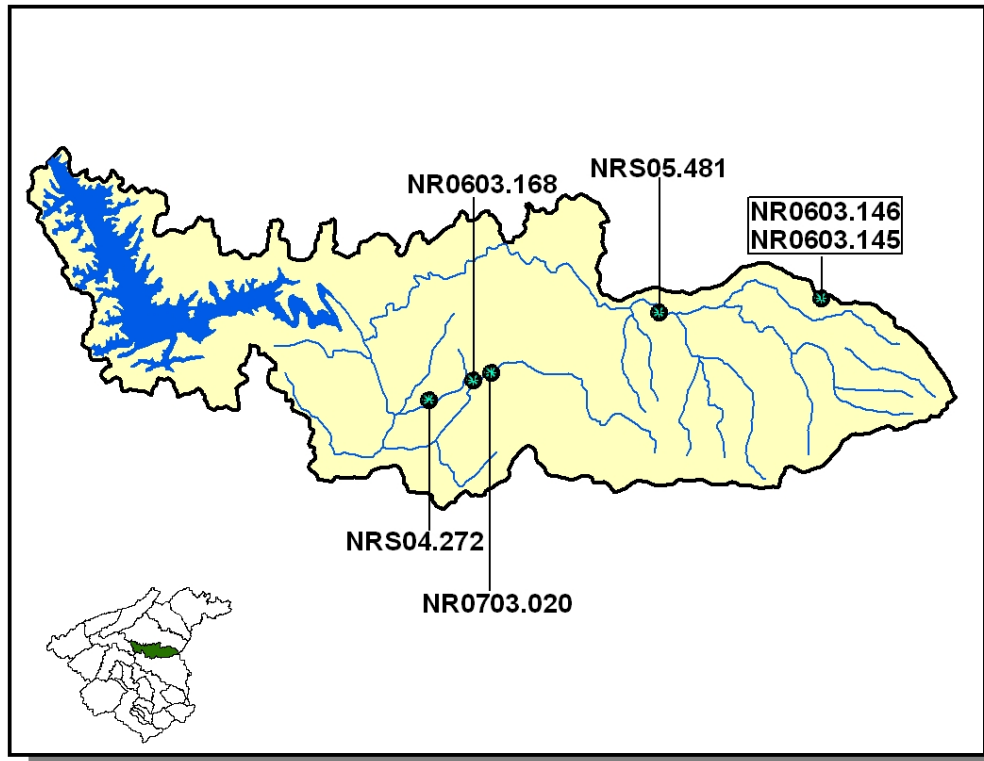


Figure 4-44. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070104. More information is provided in Appendix IV.

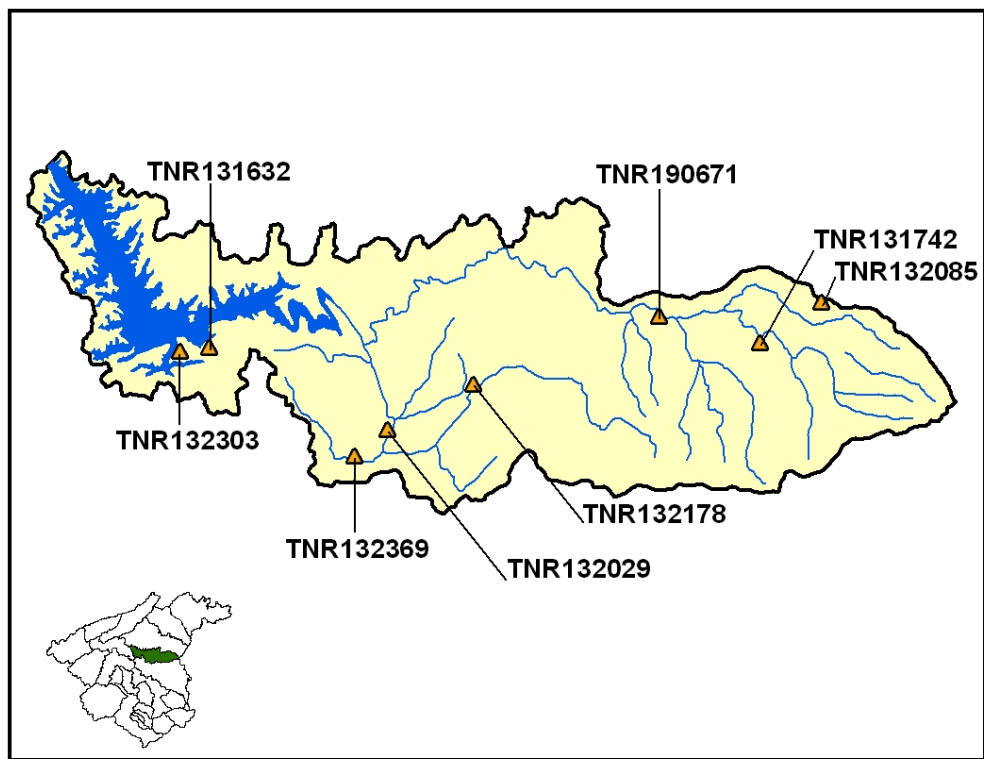


Figure 4-45. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070104. More information is provided in Appendix IV.

4.2.D.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Jefferson	16,126	35,718	1,878	1,633	183	567
Sevier	9,816	19,013	172	26	394	234

Table 4-22. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Jefferson	62.2	62.2	0.6	1.8
Sevier	254.5	127.4	0.3	0.9

Table 4-23. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.17
Oats (Close Grown Cropland)	13.51
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.32
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.49
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.21
Legume Grass (Hayland)	0.06

Table 4-24. Annual Estimated Total Soil Loss in Subwatershed 060101070104.

4.2.E. 060101070201 (French Broad River)

4.2.E.i. General Description

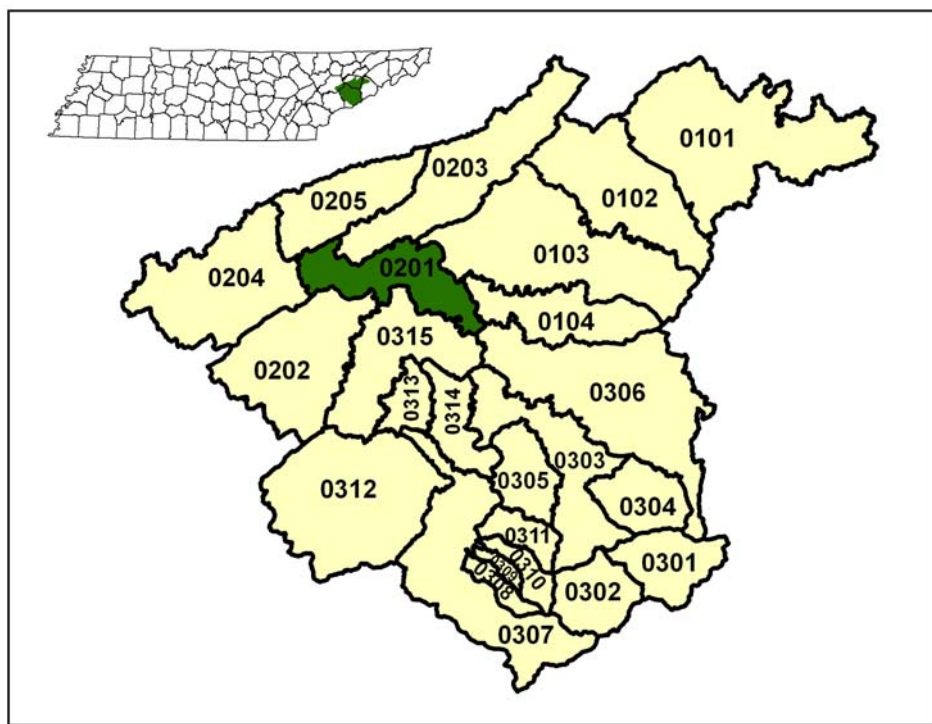


Figure 4-46. Location of Subwatershed 060101070201. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

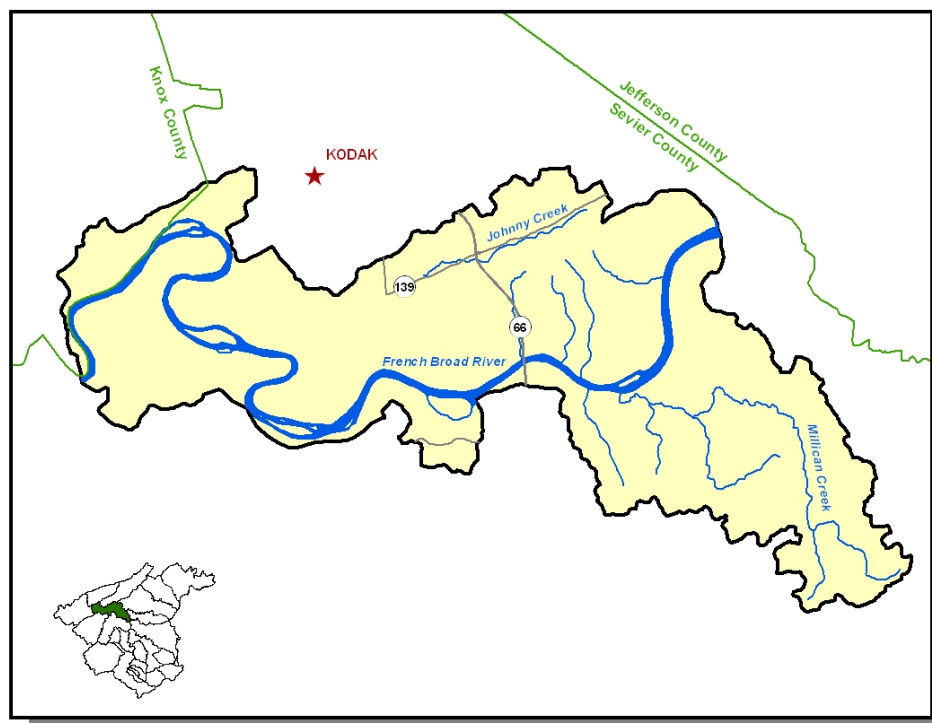


Figure 4-47. Locational Details of Subwatershed 060101070201.

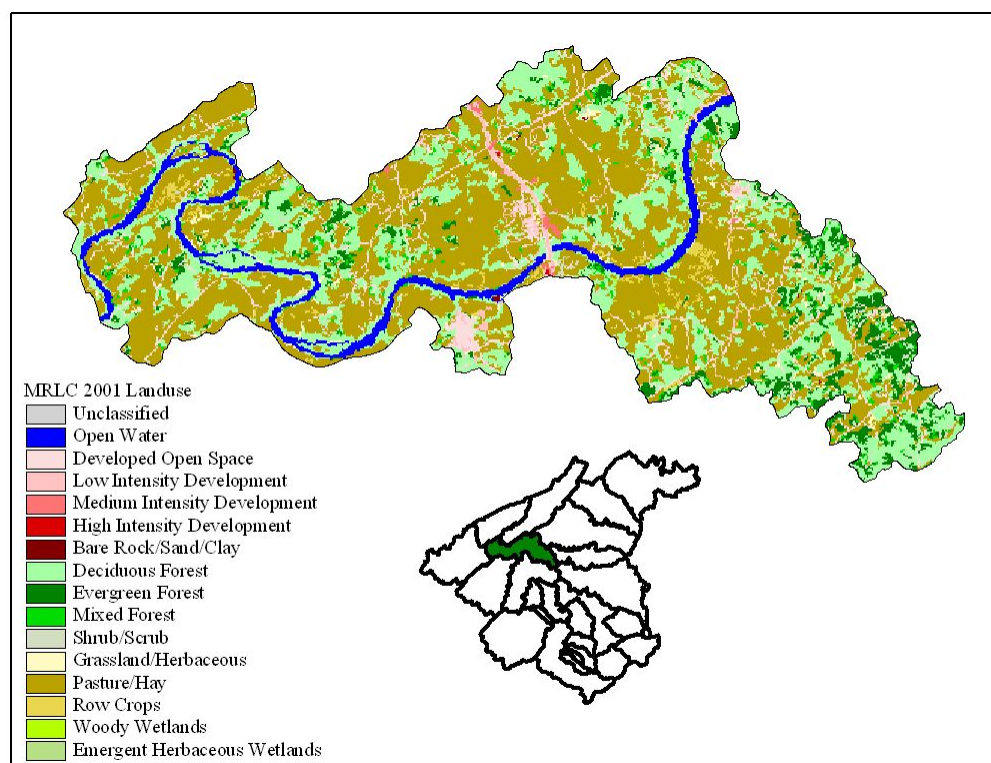


Figure 4-48. Illustration of Land Use Distribution in Subwatershed 060101070201.

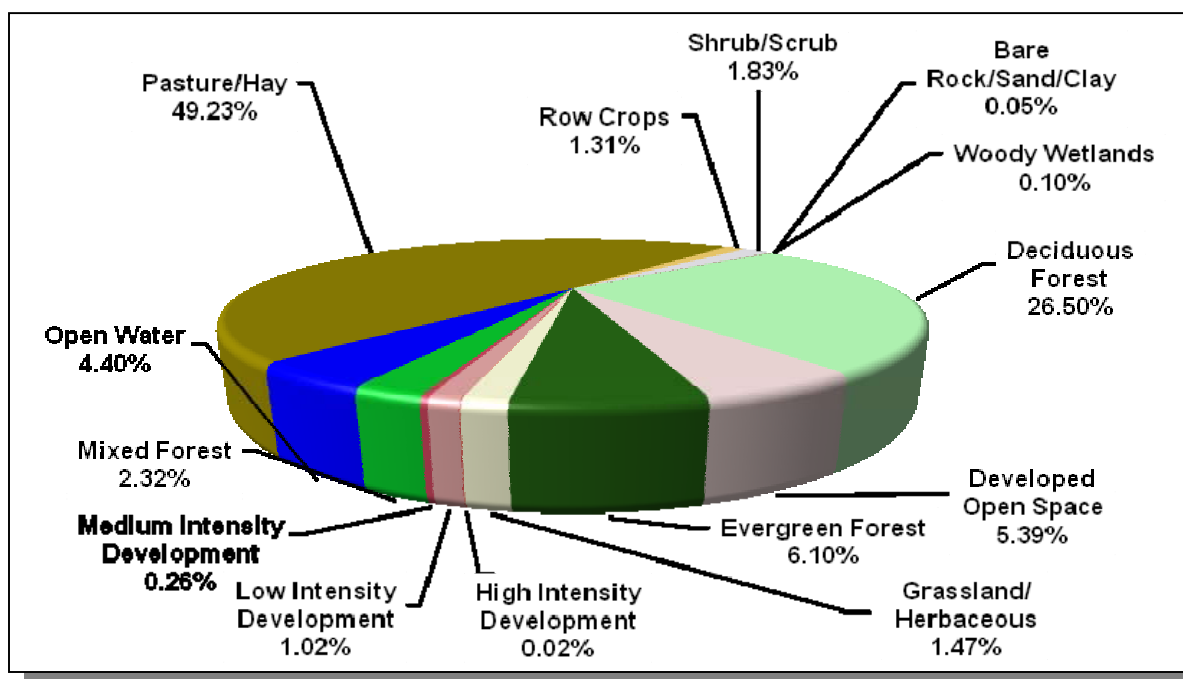


Figure 4-49. Land Use Distribution in Subwatershed 060101070201. More information is provided in Appendix IV.

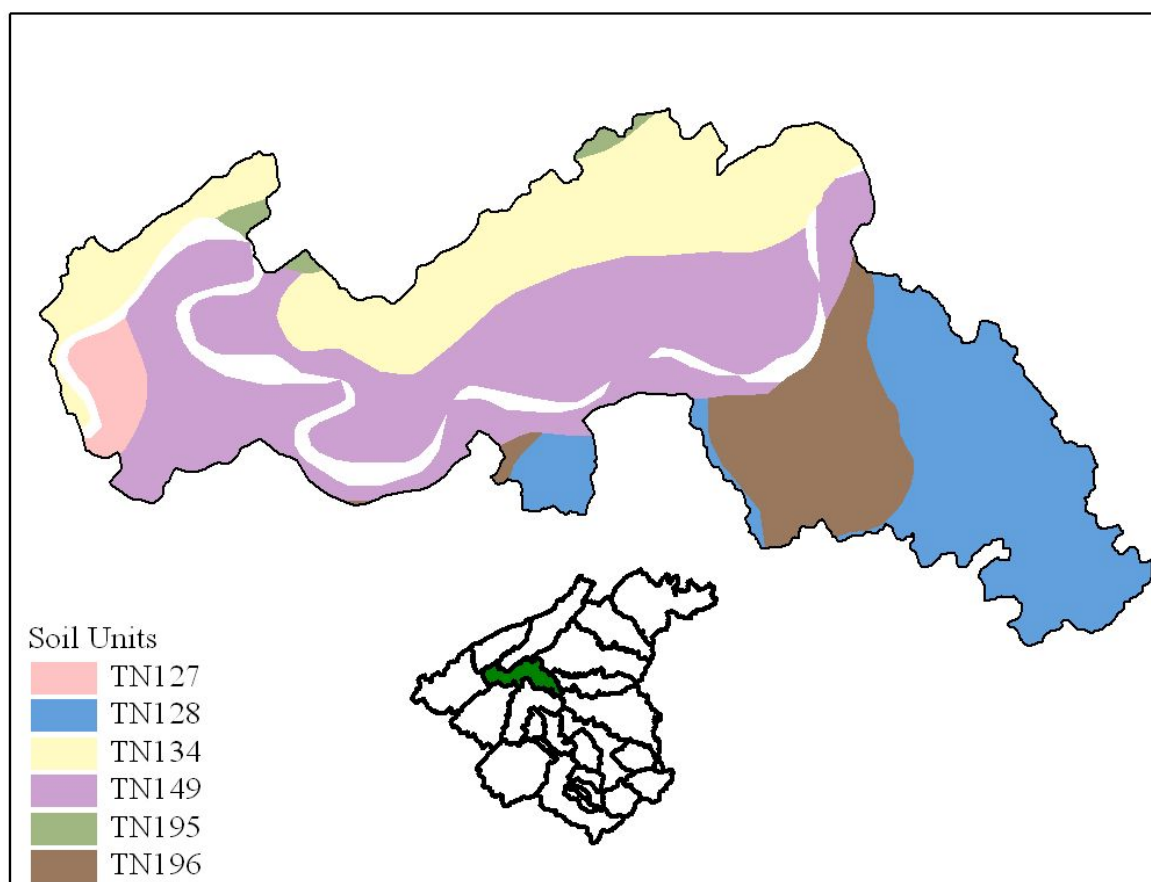


Figure 4-50. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070201.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN127	3.00	C	1.31	5.20	Loam	0.35
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN149	1.00	B	1.29	5.01	Loam	0.30

Table 4-25. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070201. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Knox	33,5749	365,900	382,032	0.32	1,088	1,186	1,238	13.80
Sevier	51,043	62,774	71,170	4.41	2,251	2,768	3,139	39.40
Totals	386,792	428,674	453,202		3,339	3,954	4,377	31.10

Table 4-26. Population Estimates in Subwatershed 060101070201.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Sevierville	Sevier	7,178	3,321	2,632	686	3

Table 4-27. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070201.

4.2.E.ii. USGS Gaging Stations and STORET Sites

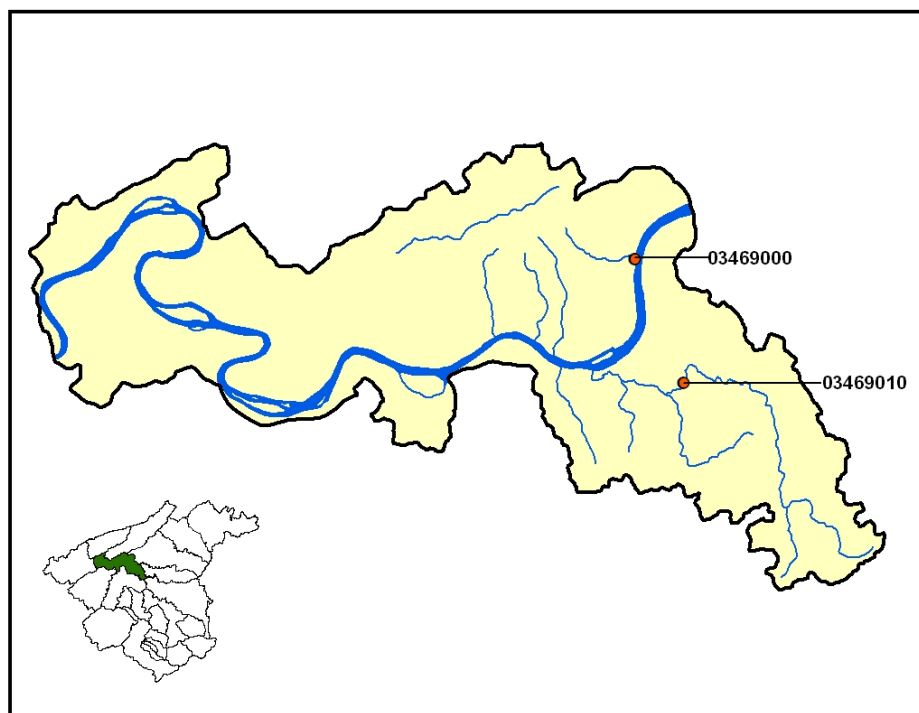


Figure 4-51. Location of USGS Continuous Record Gaging Stations in Subwatershed 060101070201. More information is provided in Appendix IV.

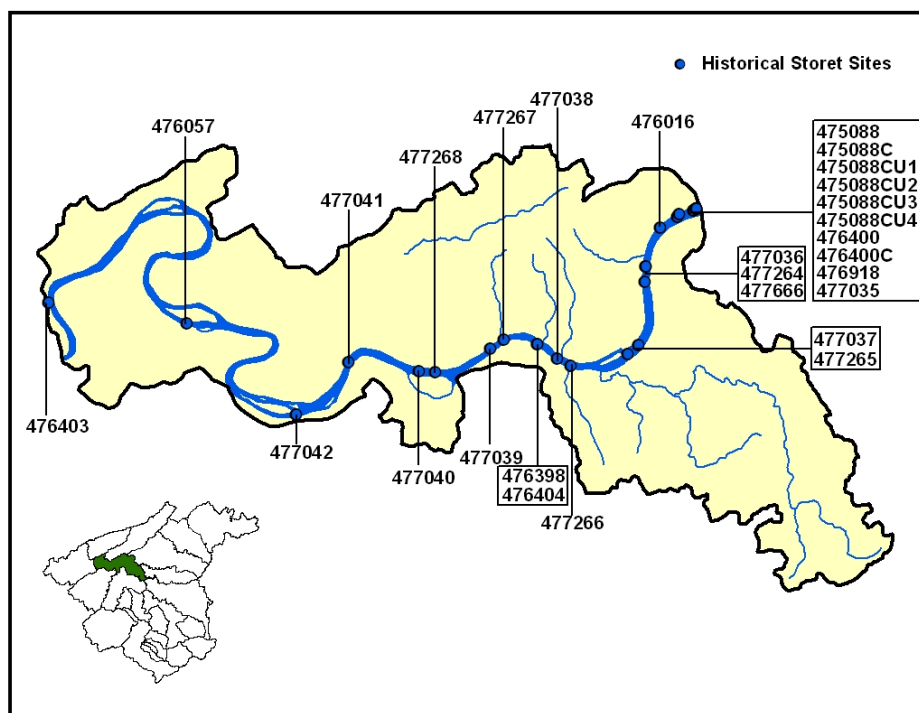


Figure 4-52. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070201. More information, including site names and locations, is provided in Appendix IV.

4.2.E.iii. Permitted Activities.

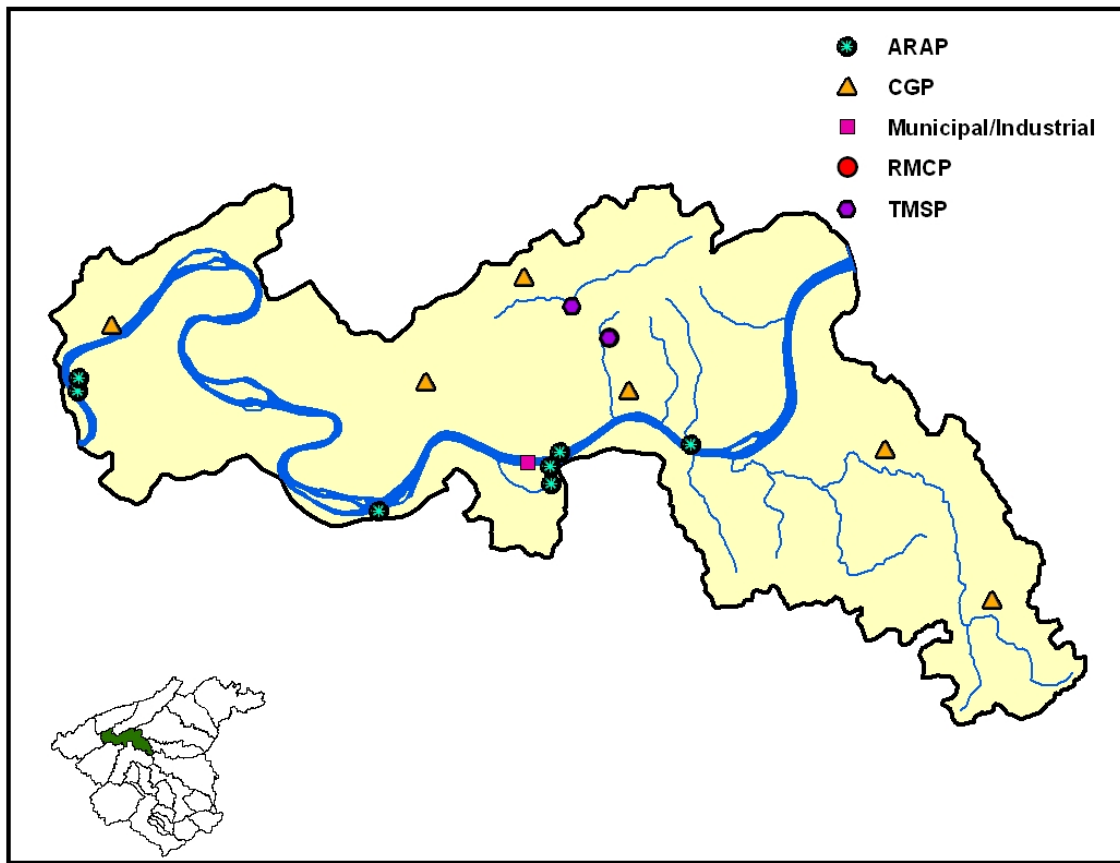


Figure 4-53. Location of Permits Issued in Subwatershed 060101070201. More information, including the names of facilities, is provided in Appendix IV.

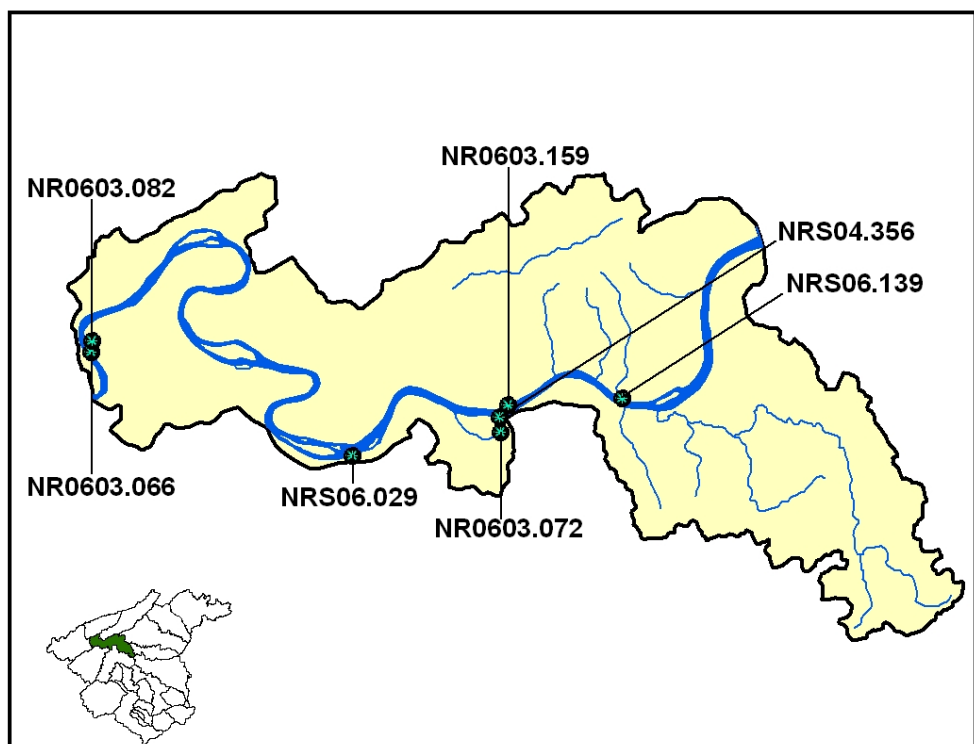


Figure 4-54. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070201. More information is provided in Appendix IV.

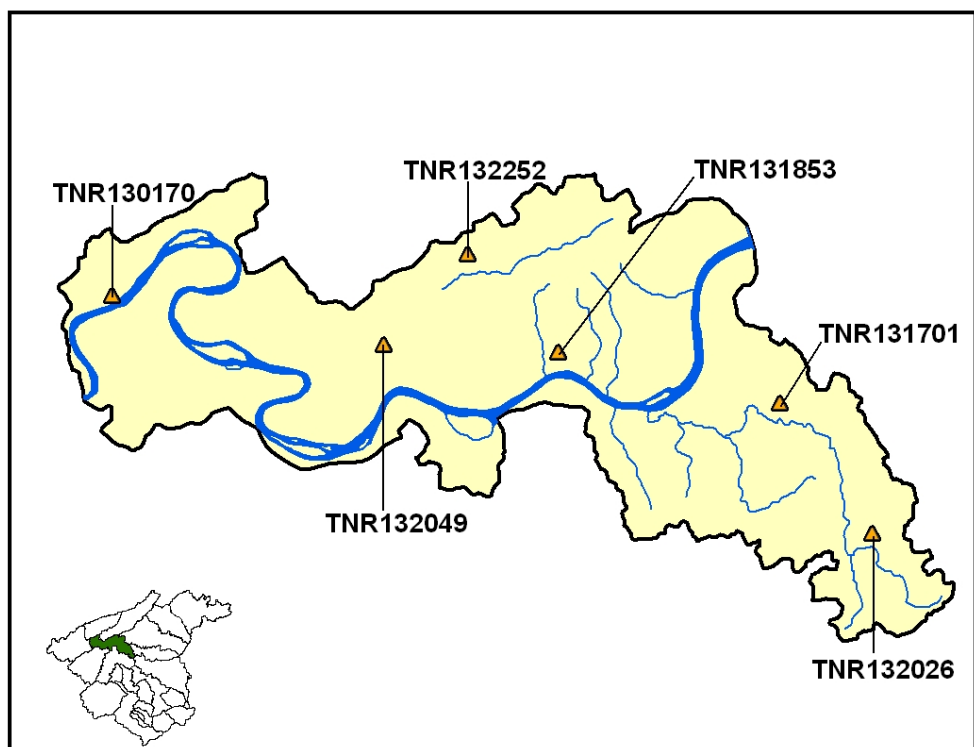


Figure 4-55. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070201. More information is provided in Appendix IV.

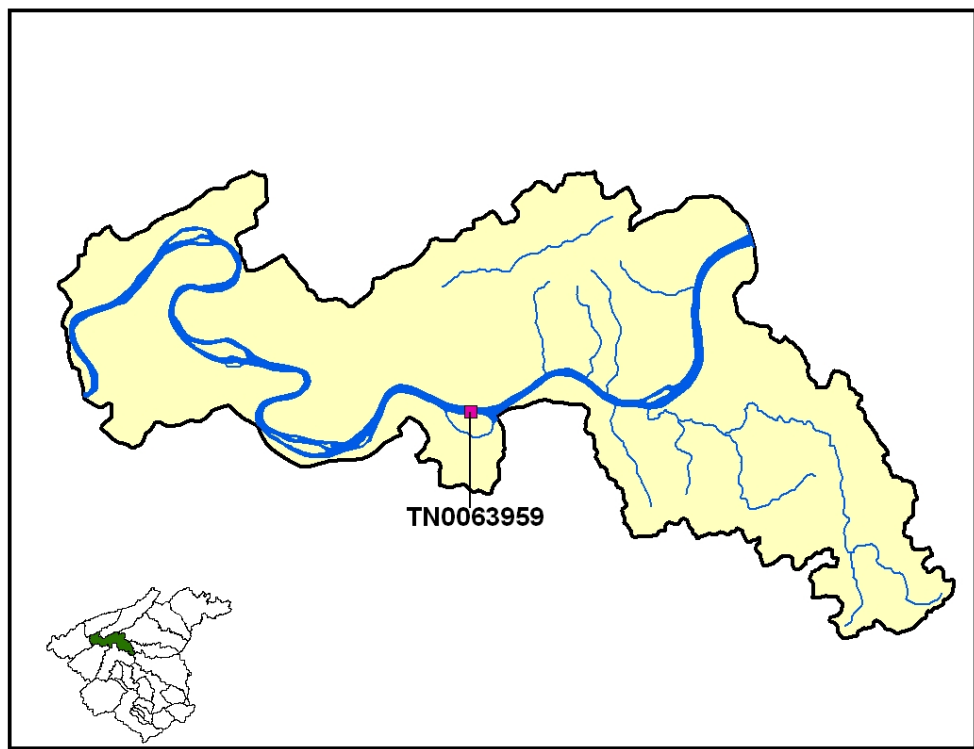


Figure 4-56. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070201. More information, including the name of the facility is provided in Appendix IV.

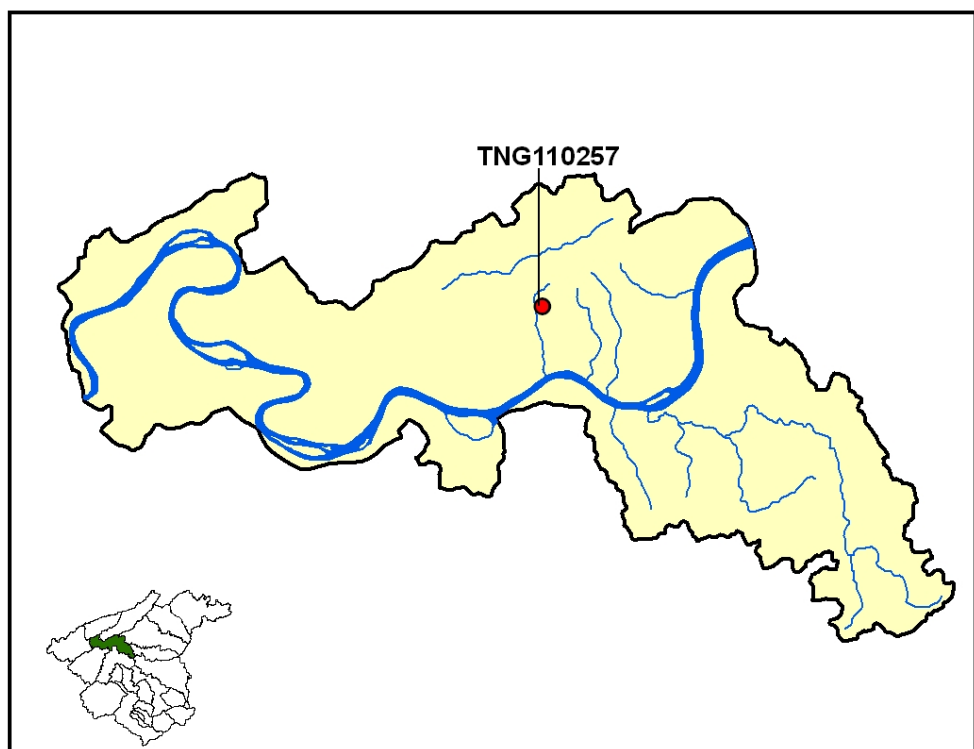


Figure 4-57. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070201. More information, including the names of facilities, is provided in Appendix IV.

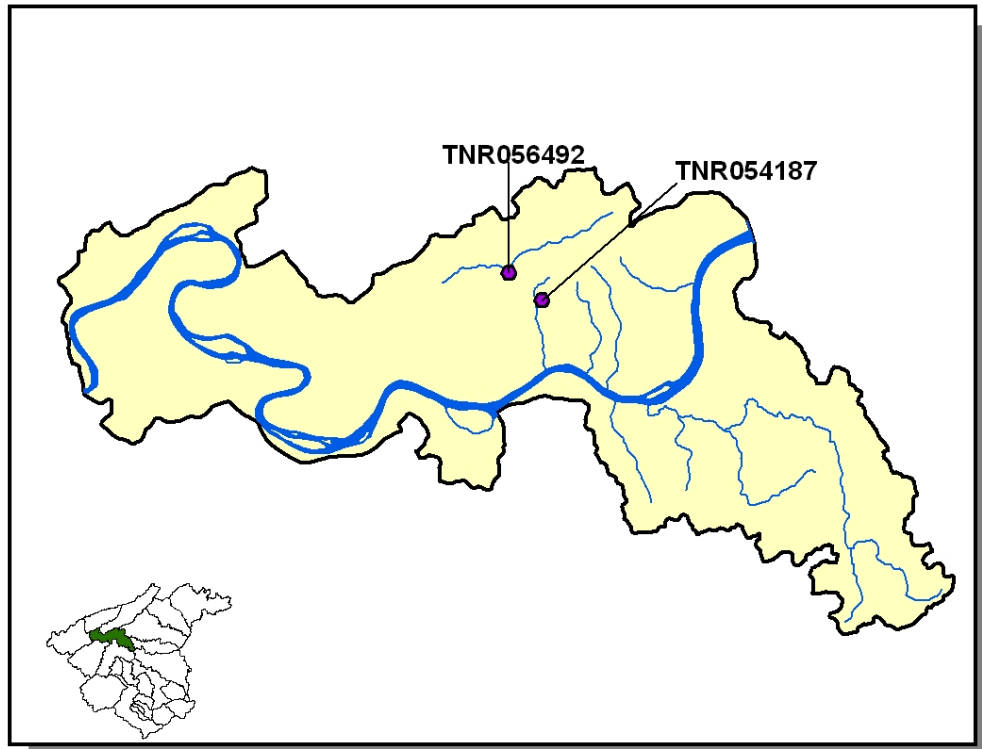


Figure 4-58. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070201. More information is provided in Appendix IV.

4.2.E.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Knox	12,424	24,664	855	2,056	851	649
Sevier	9,816	19,013	172	26	394	234

Table 4-28. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Knox	127.5	127.0	2.2	8.2
Sevier	254.5	127.4	0.3	0.9

Table 4-29. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Soybeans (Row Crops)	15.54
Wheat (Close Grown Cropland)	9.23
Corn (Row Crops)	4.89
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.51
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.21
Farmsteads and Ranch Headquarters	0.21
Legume Grass (Hayland)	0.07

Table 4-30. Annual Estimated Total Soil Loss in Subwatershed 060101070201.

4.2.F. 060101070202 (Boys Creek)

4.2.F.i. General Description

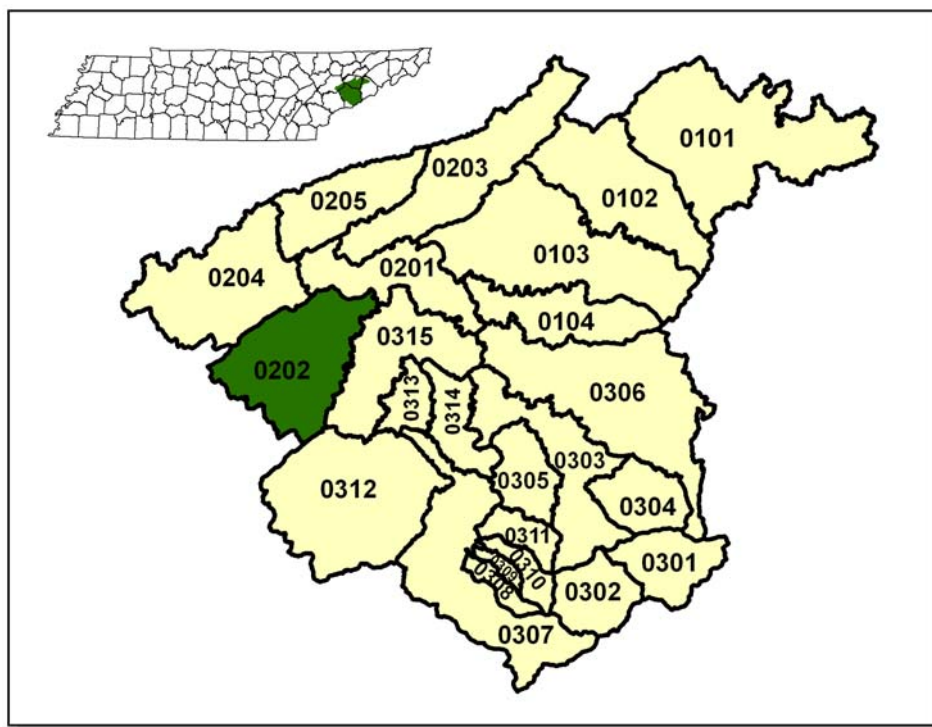


Figure 4-59. Location of Subwatershed 060101070202. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

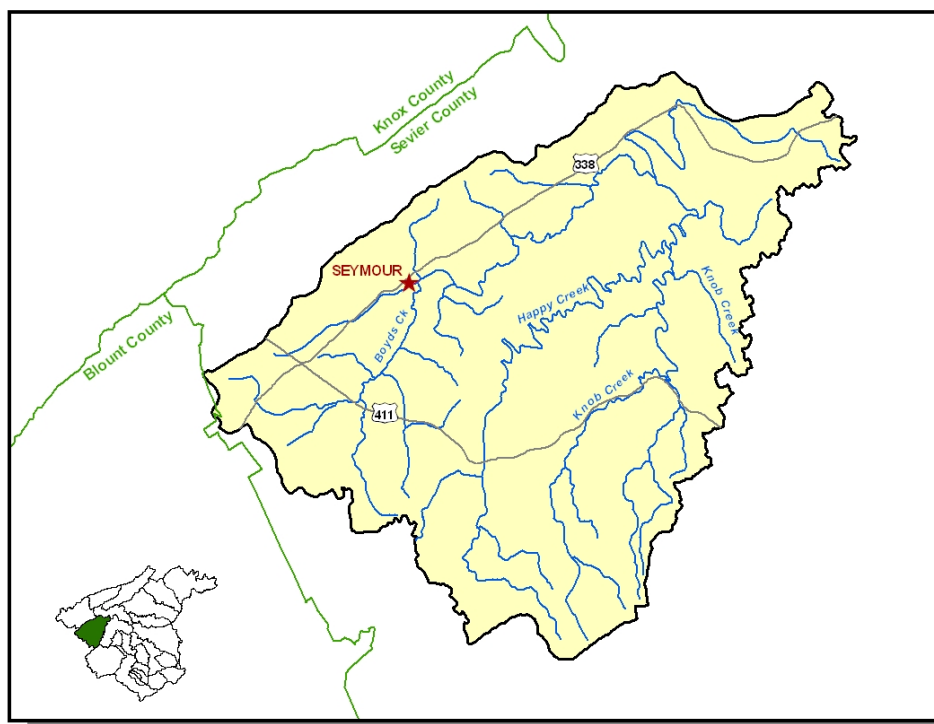


Figure 4-60. Locational Details of Subwatershed 060101070202.

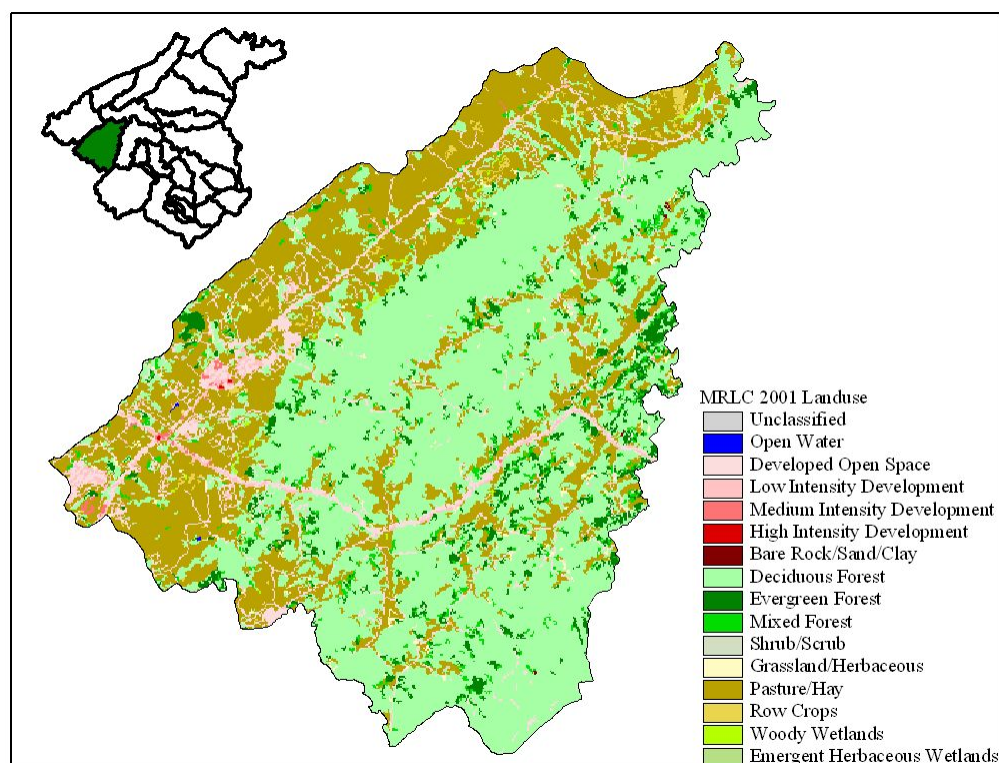


Figure 4-61. Illustration of Land Use Distribution in Subwatershed 060101070202.

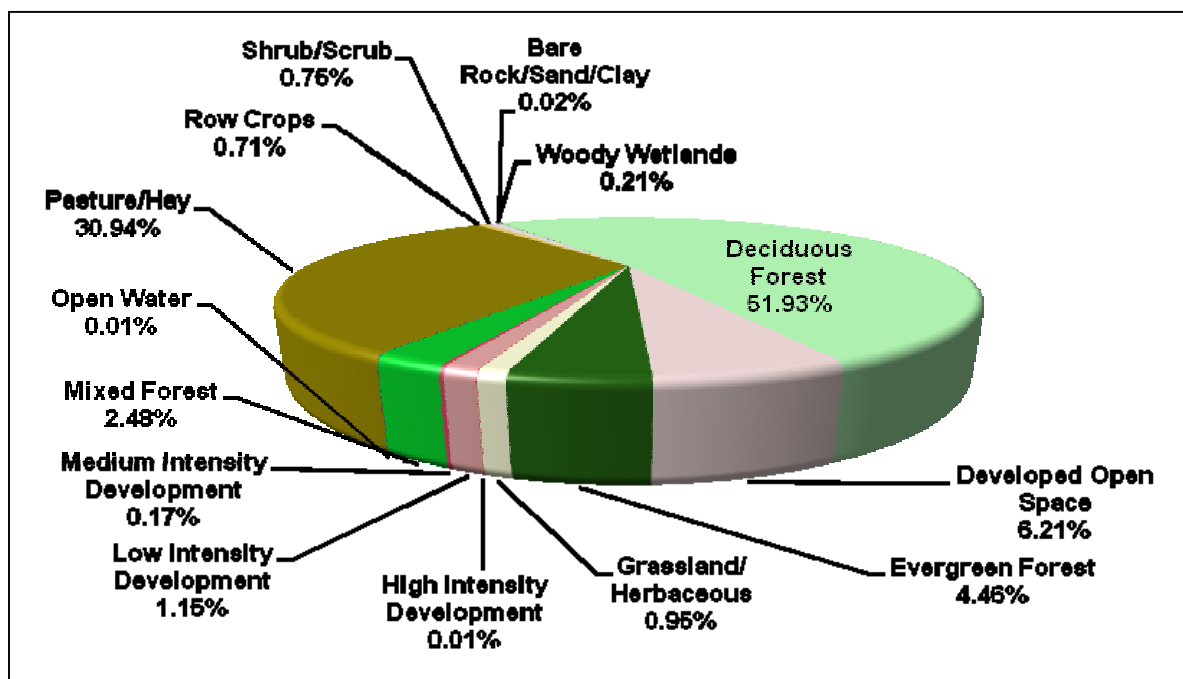


Figure 4-62. Land Use Distribution in Subwatershed 060101070202. More information is provided in Appendix IV.

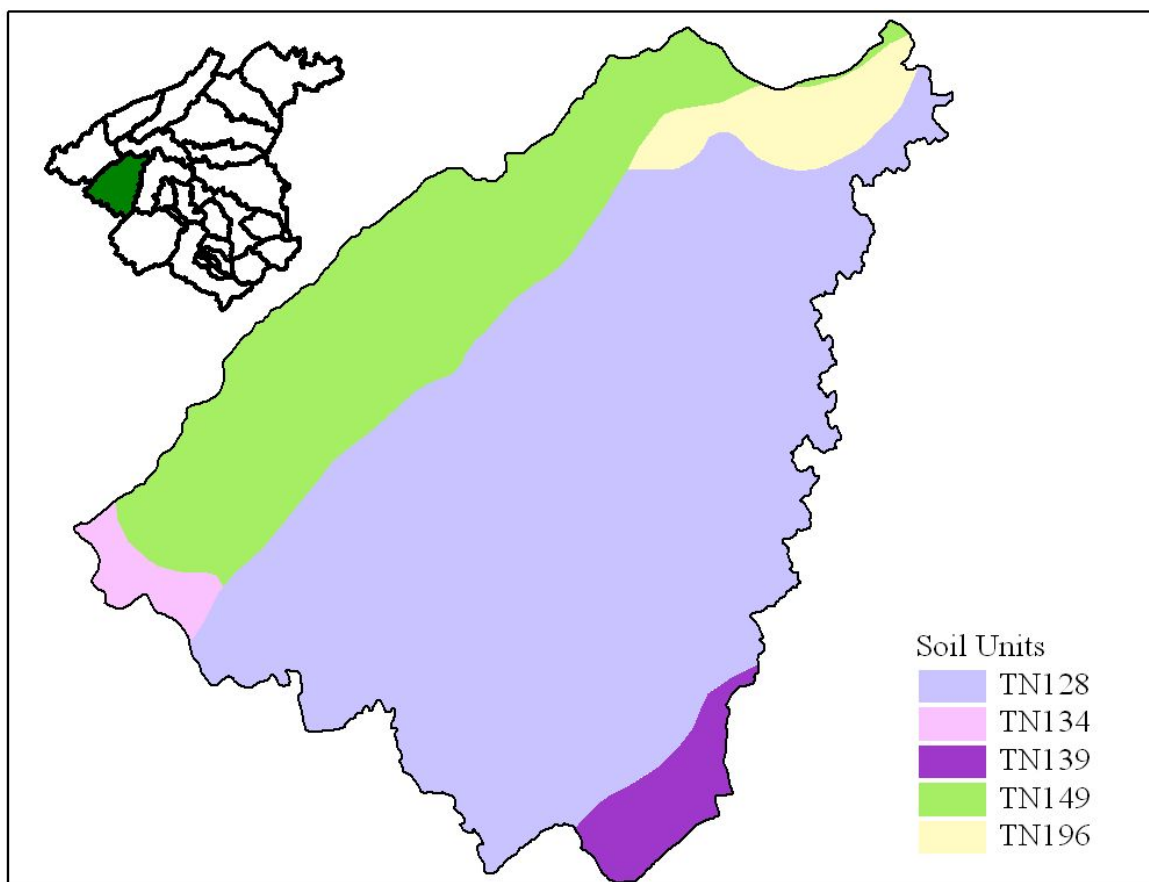


Figure 4-63. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070202.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN149	1.00	B	1.29	5.01	Loam	0.30
TN196	13.00	C	1.61	5.39	Loam	0.31

Table 4-31. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070202. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Blount	85,969	100,218	105,823	0.04	37	43	45	21.60
Sevier	51,043	62,774	71,170	7.70	3,929	4,832	5,478	39.40
Totals	137,012	162,992	176,993		3,966	4,875	5,523	39.30

Table 4-32. Population Estimates in Subwatershed 060101070202.

4.2.F.ii. STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070202.

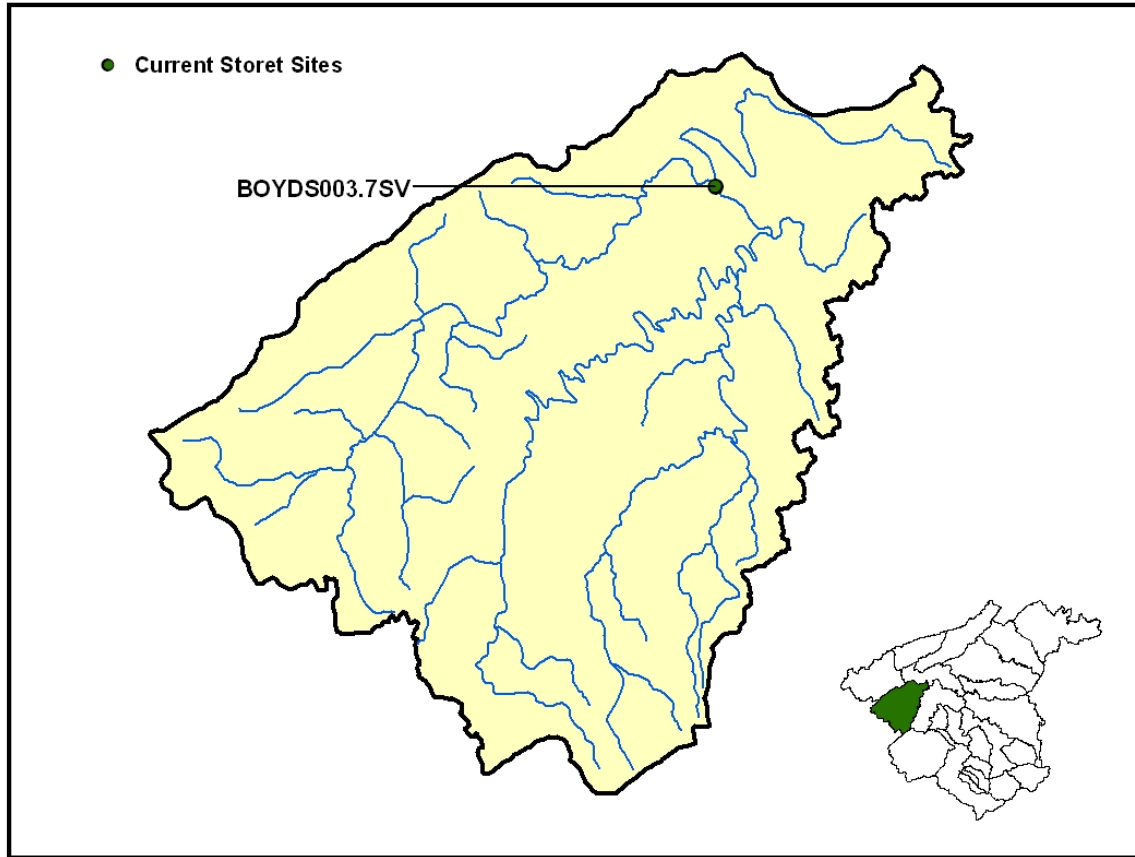


Figure 4-64. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070202. More information, including site names and locations, is provided in Appendix IV.

4.2.F.iii. Permitted Activities.

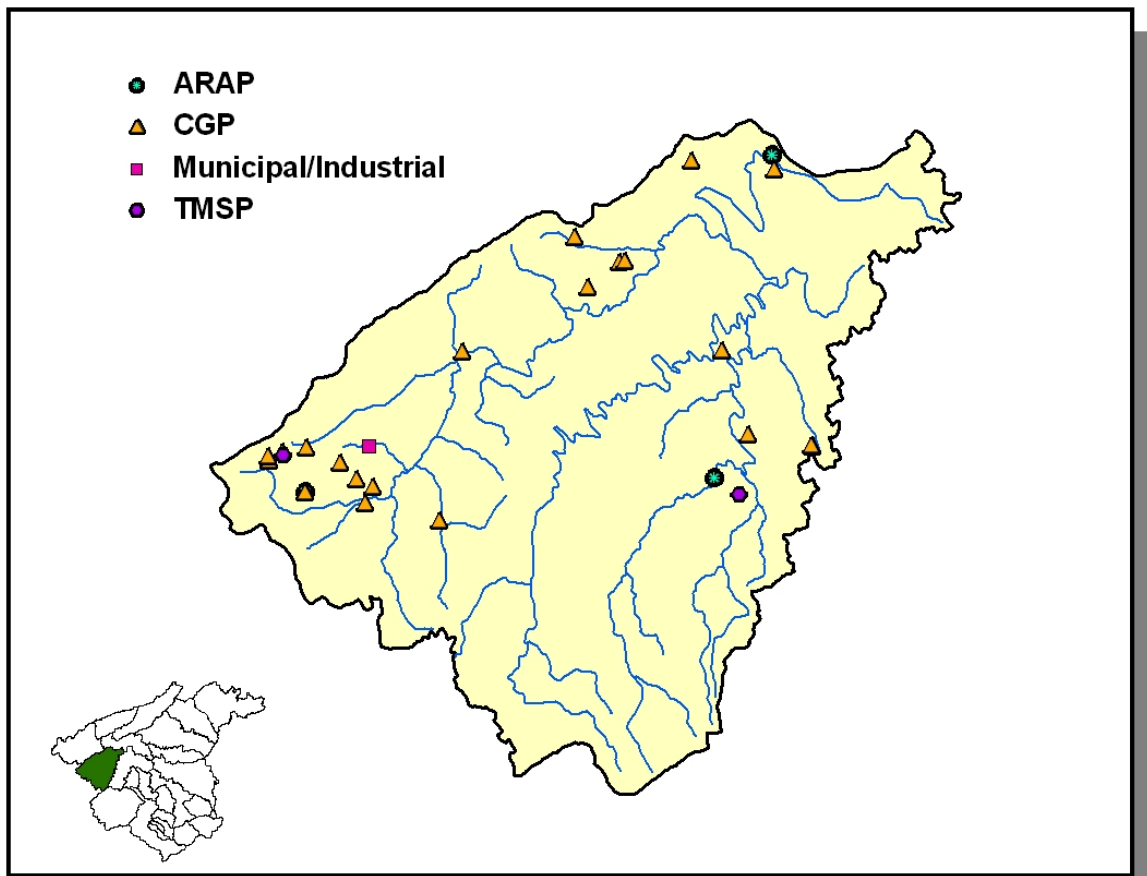


Figure 4-65. Location of Permits Issued in Subwatershed 060101070202. More information, including the names of facilities, is provided in Appendix IV.

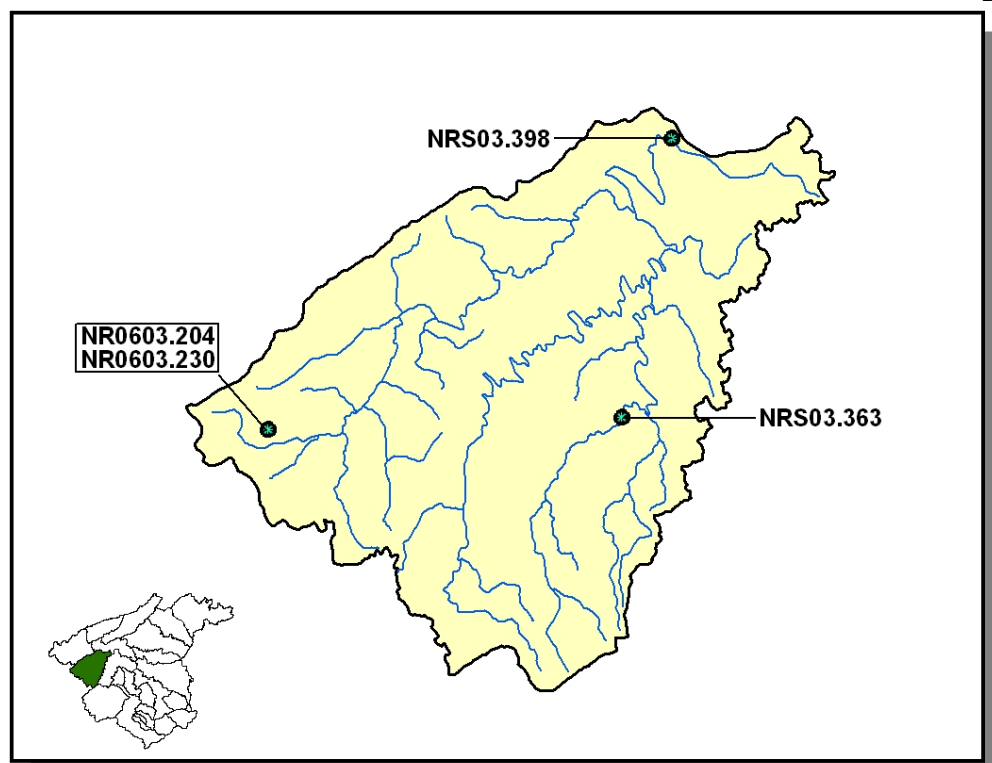


Figure 4-66. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070202. More information is provided in Appendix IV.

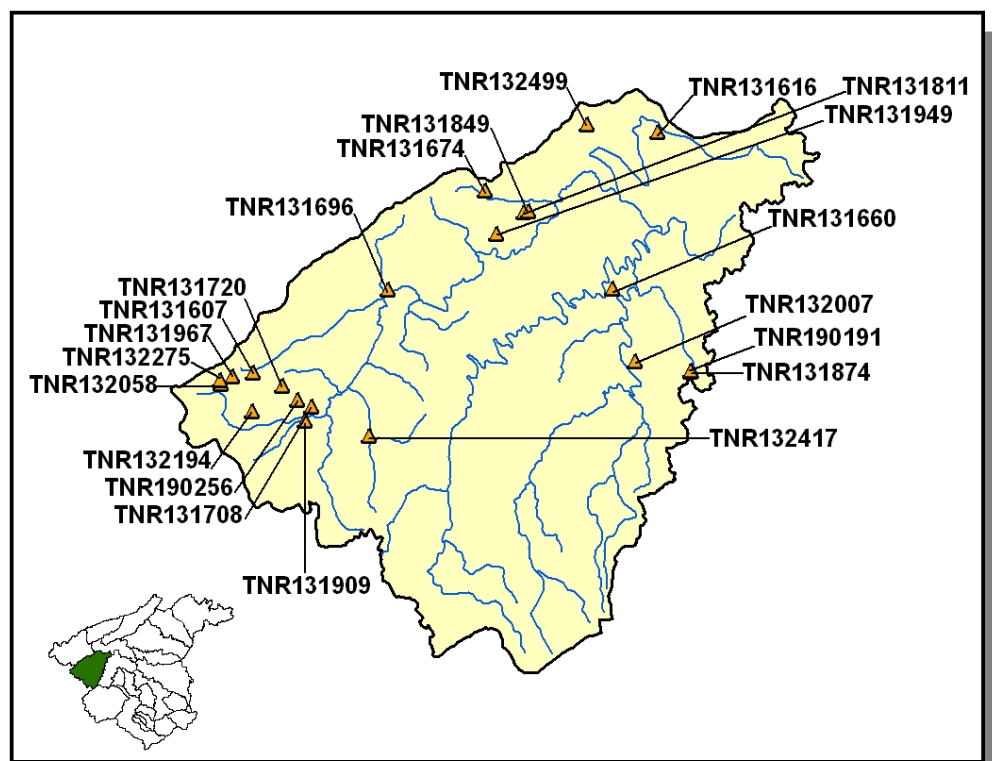


Figure 4-67. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070202. More information is provided in Appendix IV.



Figure 4-68. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070202. More information, including the name of the facility is provided in Appendix IV.



Figure 4-69. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070202. More information is provided in Appendix IV.

4.2.F.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Blount	15,468	32,061	1,769	664	658	455
Sevier	9,816	19,013	172	26	394	234

Table 4-33. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Blount	165.5	69.9	1.8	9.3
Sevier	254.5	127.4	0.3	0.9

Table 4-34. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.51
Corn (Row Crops)	5.18
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Oats (Close Grown Cropland)	0.32
Farmsteads and Ranch Headquarters	0.22
Grass (Hayland)	0.21
Other Land in Farms (Other Far	0.14
Legume Grass (Hayland)	0.06

Table 4-35. Annual Estimated Total Soil Loss in Subwatershed 060101070202.

4.2.G. 060101070203 (Dumplin Creek)

4.2.G.i. General Description

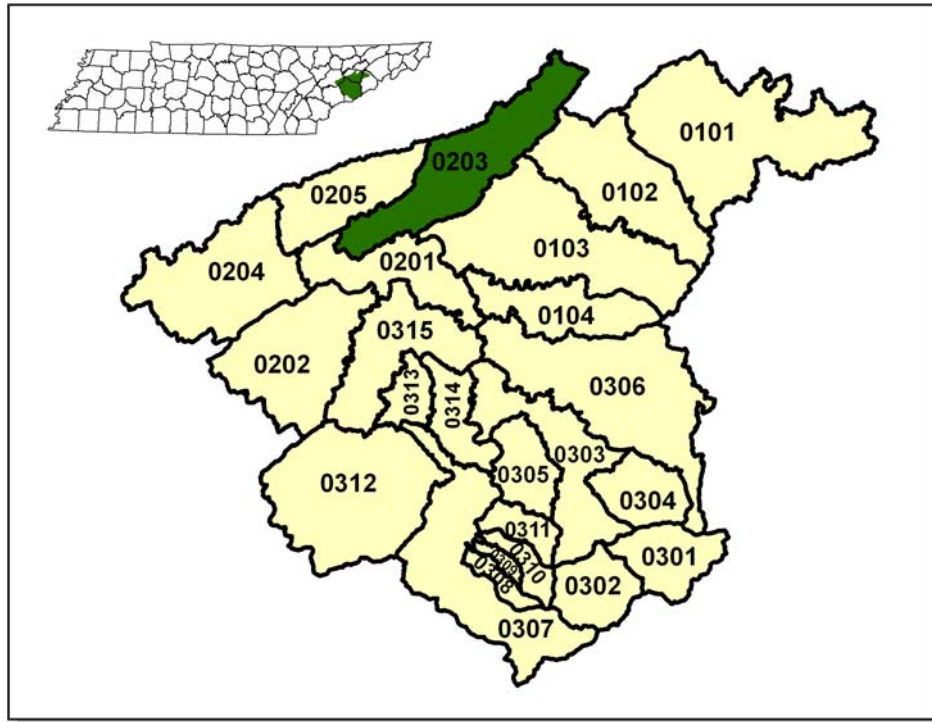


Figure 4-70. Location of Subwatershed 060101070203. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

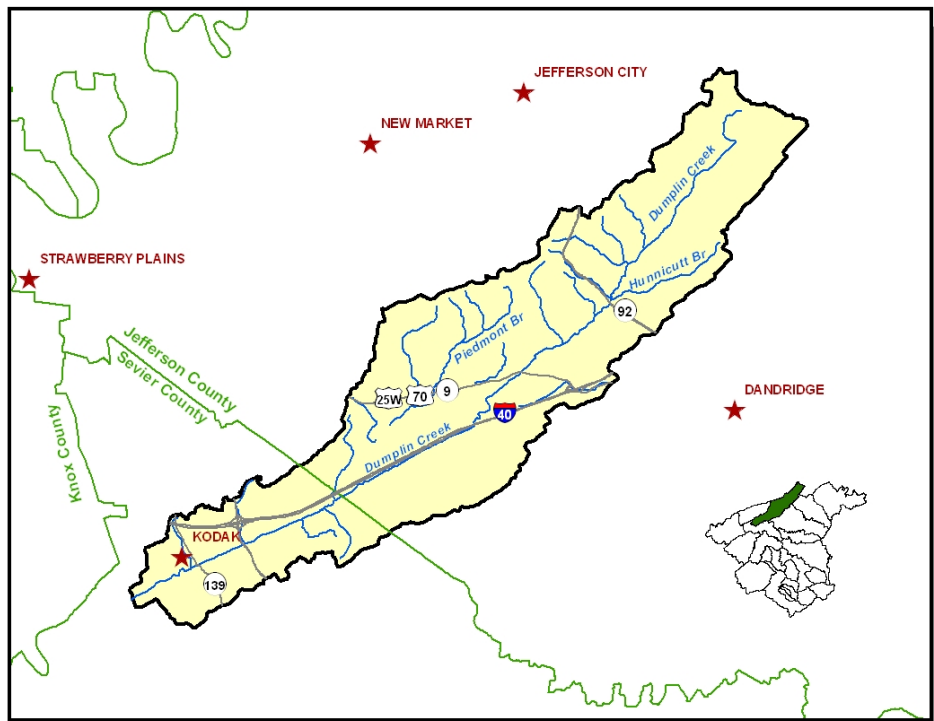


Figure 4-71. Locational Details of Subwatershed 060101070203.

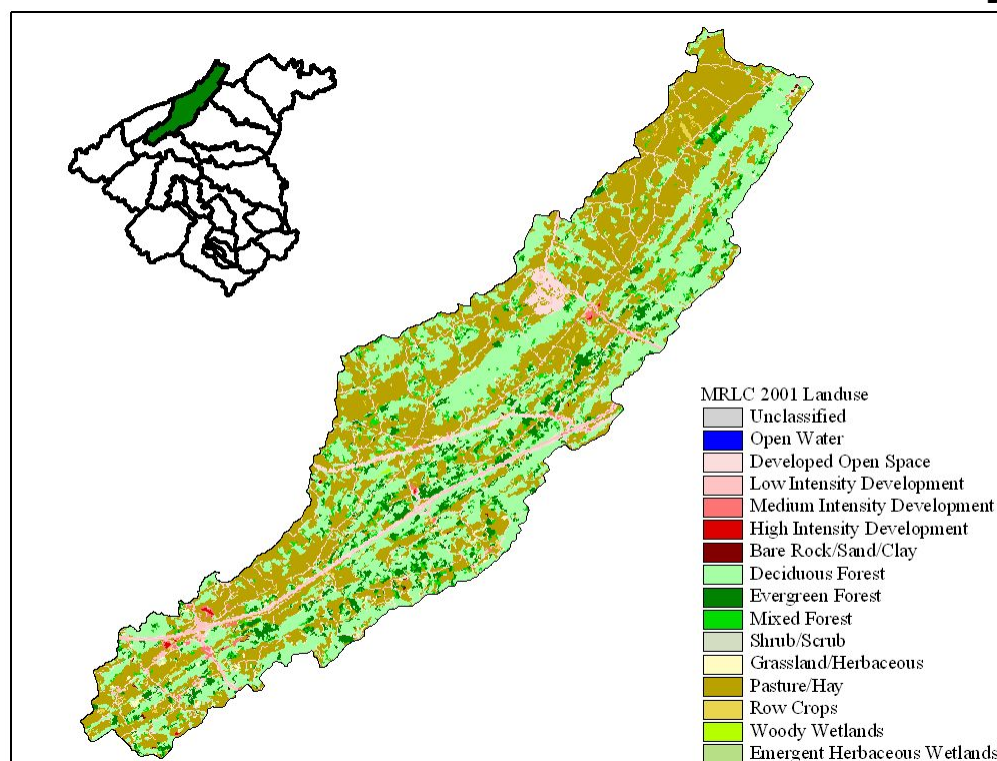


Figure 4-72. Illustration of Land Use Distribution in Subwatershed 060101070203.

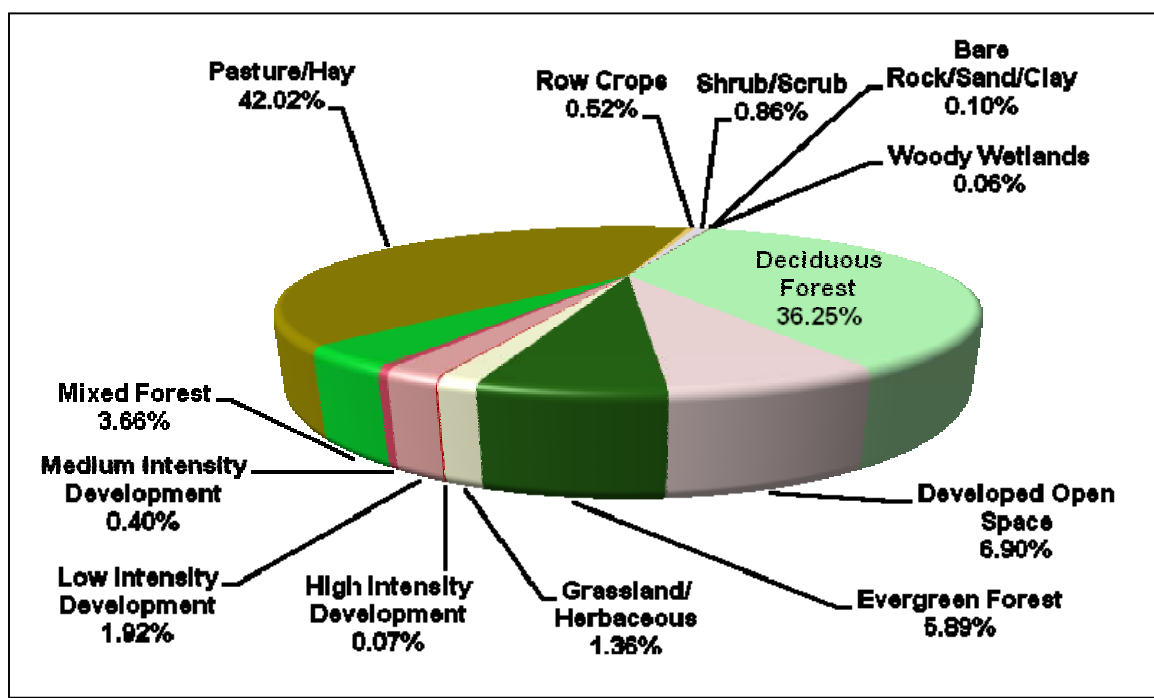


Figure 4-73. Land Use Distribution in Subwatershed 060101070203. More information is provided in Appendix IV.

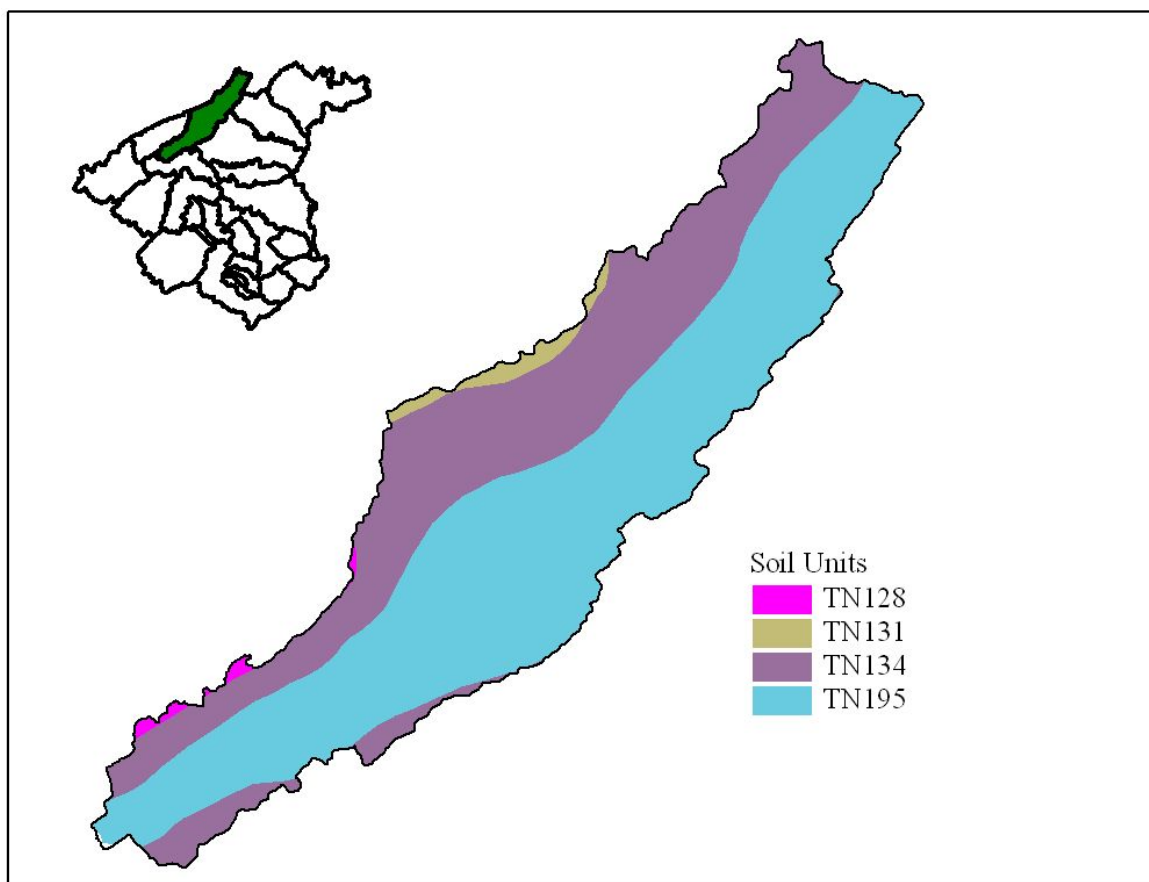


Figure 4-74. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070203.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN149	1.00	B	1.29	5.01	Loam	0.30
TN195	0.00	C	1.93	5.19	Silty Loam	0.34

Table 4-36. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070203. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Jefferson	33,016	42,168	44,294	12.12	4,000	5,109	5,366	34.20
Sevier	51,043	62,774	71,170	1.610	822	1,011	1,146	39.40
Totals	84,059	104,942	115,464		4,822	6,120	6,512	35.00

Table 4-37. Population Estimates in Subwatershed 060101070203.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Sevierville	Sevier	7,178	3,321	2,632	686	3

Table 4-38. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070203.

4.2.G.ii. STORET Sites

There are no USGS continuous record gaging stations in subwatershed 060101070203.

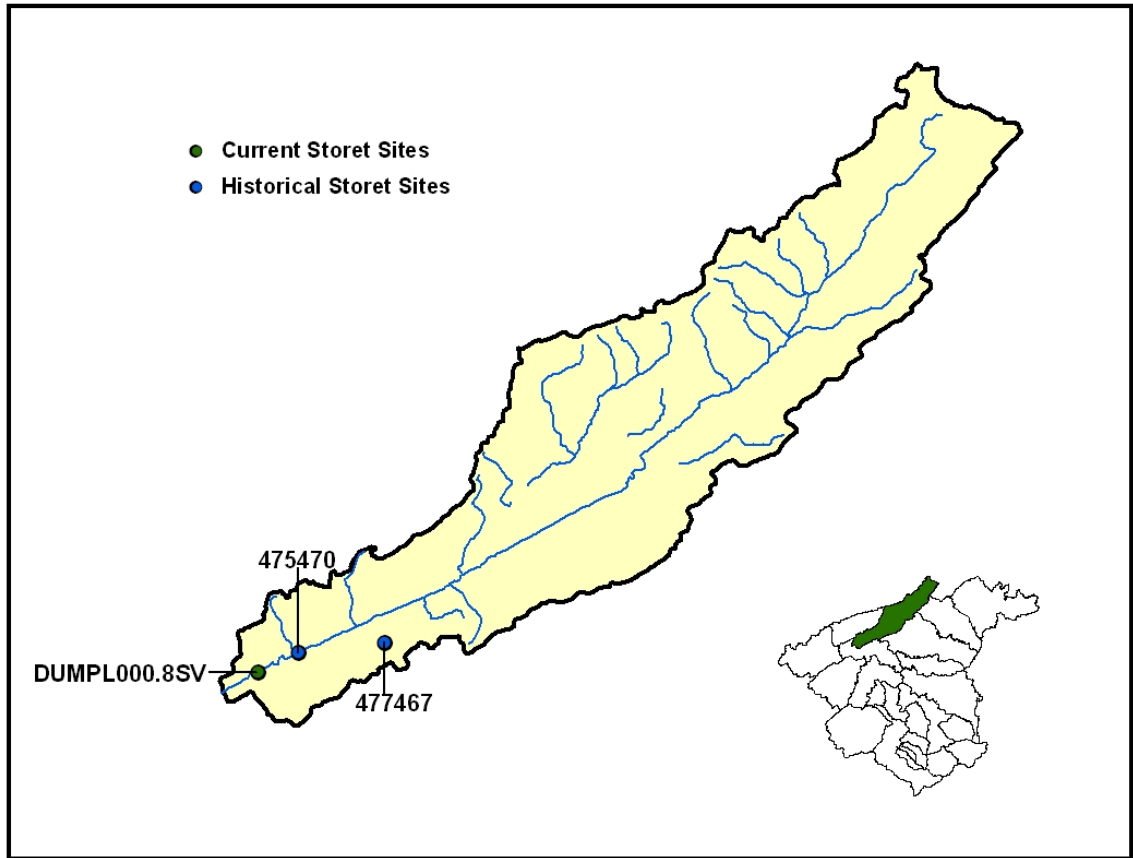


Figure 4-75. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070203. More information, including site names and locations, is provided in Appendix IV.

4.2.G.iii. Permitted Activities.

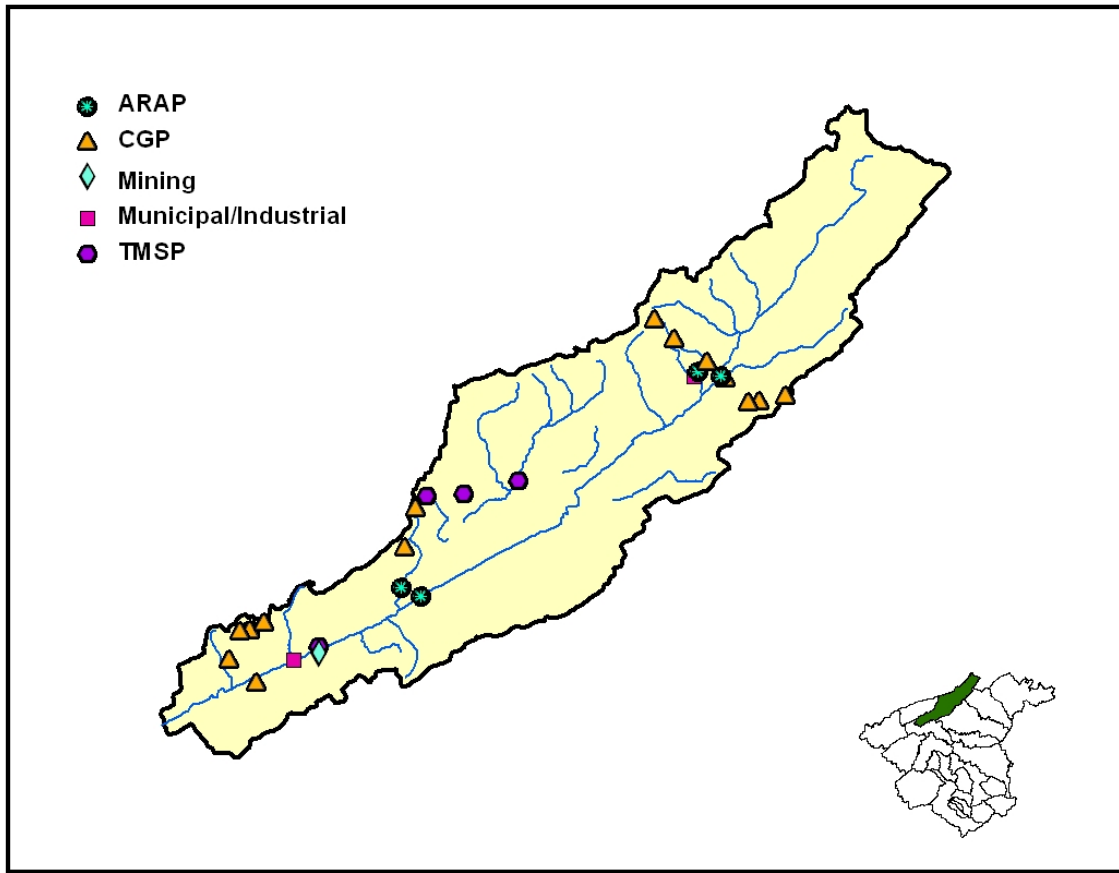


Figure 4-76. Location of Permits Issued in Subwatershed 060101070203. More information, including the names of facilities, is provided in Appendix IV.

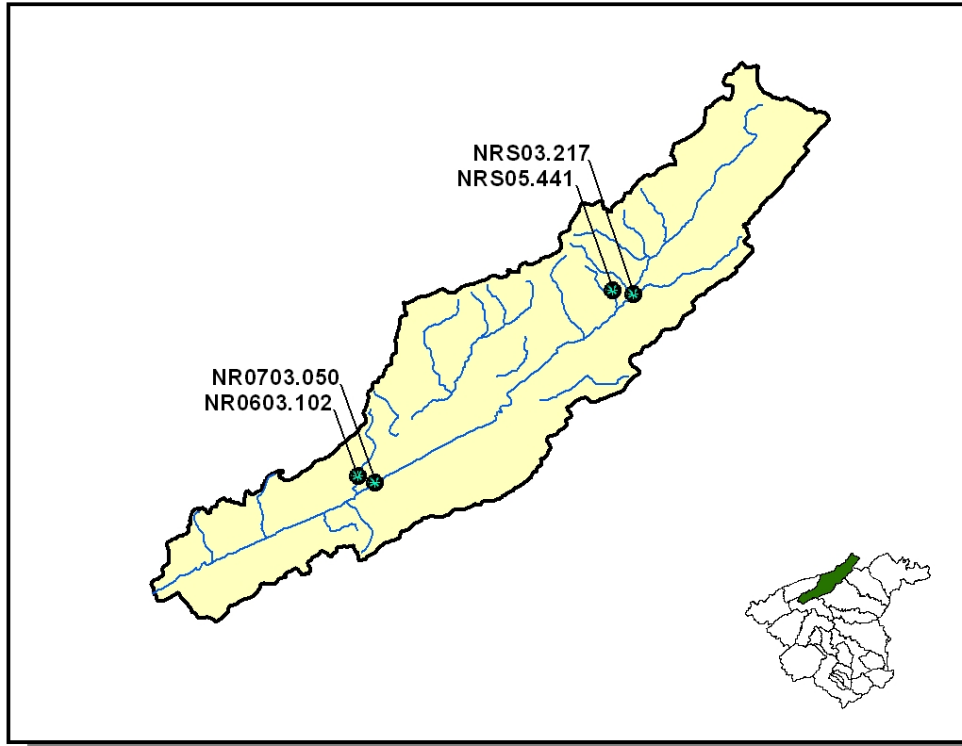


Figure 4-77. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070203. More information is provided in Appendix IV.

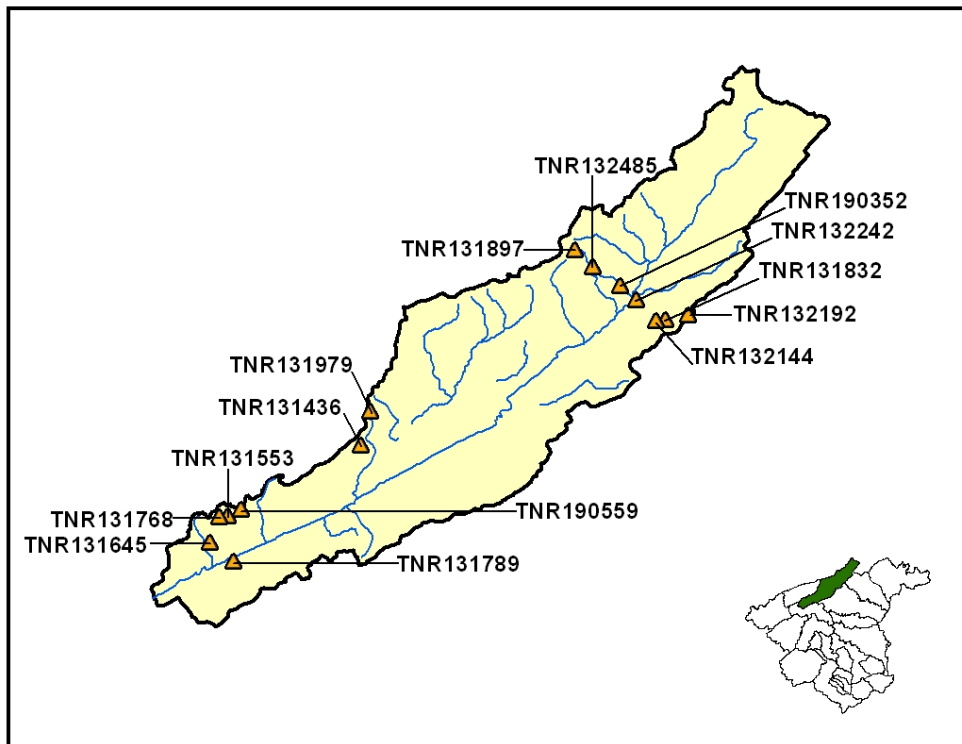


Figure 4-78. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070203. More information is provided in Appendix IV.

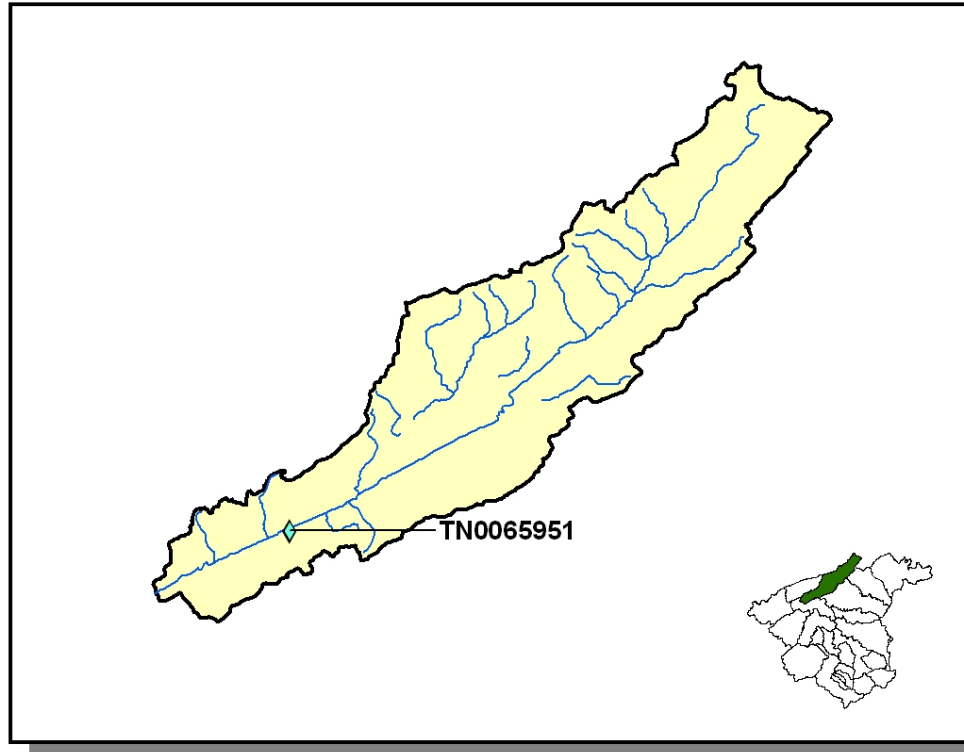


Figure 4-79. Location of permitted MINING facilities in Subwatershed 060101070203. More information is provided in Appendix IV.

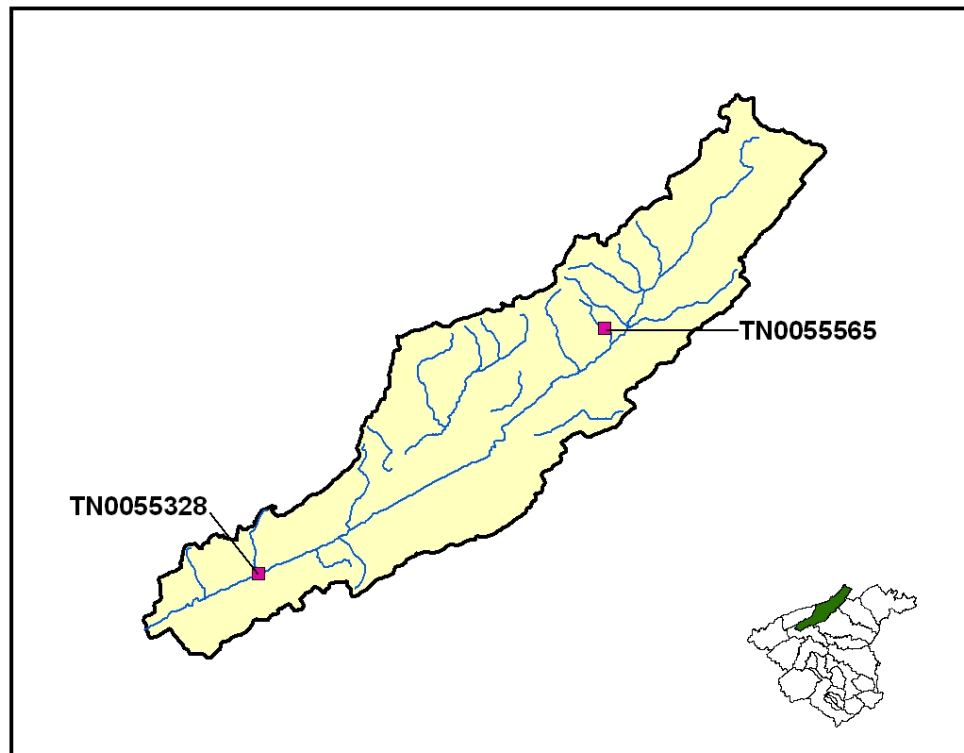


Figure 4-80. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070203. More information, including the name of the facility is provided in Appendix IV.

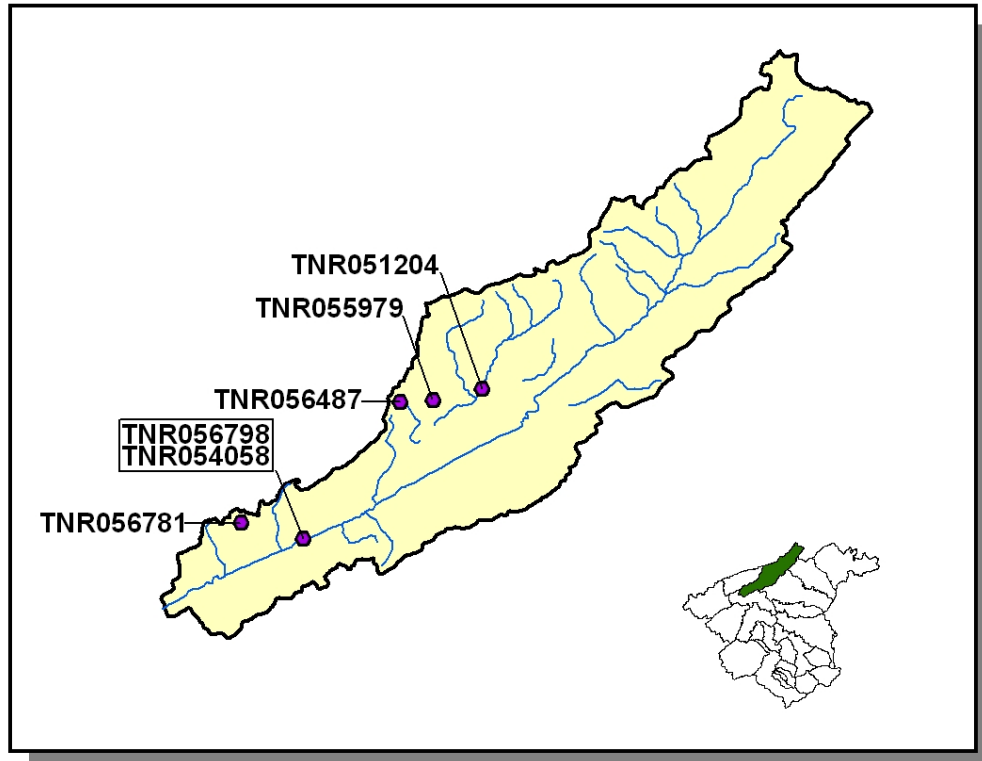


Figure 4-81. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070203. More information is provided in Appendix IV.

4.2.G.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Jefferson	16,126	35,718	1,878	1,633	183	567
Sevier	9,816	19,013	172	26	394	234

Table 4-39. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Jefferson	62.2	62.2	0.6	1.8
Sevier	254.5	127.4	0.3	0.9

Table 4-40. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	19.18
Oats (Close Grown Cropland)	13.51
Wheat (Close Grown Cropland)	9.53
Tobacco (Row Crops)	5.72
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.54
Grass Forbs Legumes Mixed (Pastureland)	0.44
Legume Grass (Hayland)	0.31
Grass (Hayland)	0.23
Farmsteads and Ranch Headquarters	0.04

Table 4-41. Annual Estimated Total Soil Loss in Subwatershed 060101070203.

4.2.H. 060101070204 (French Broad River)

4.2.H.i General Description

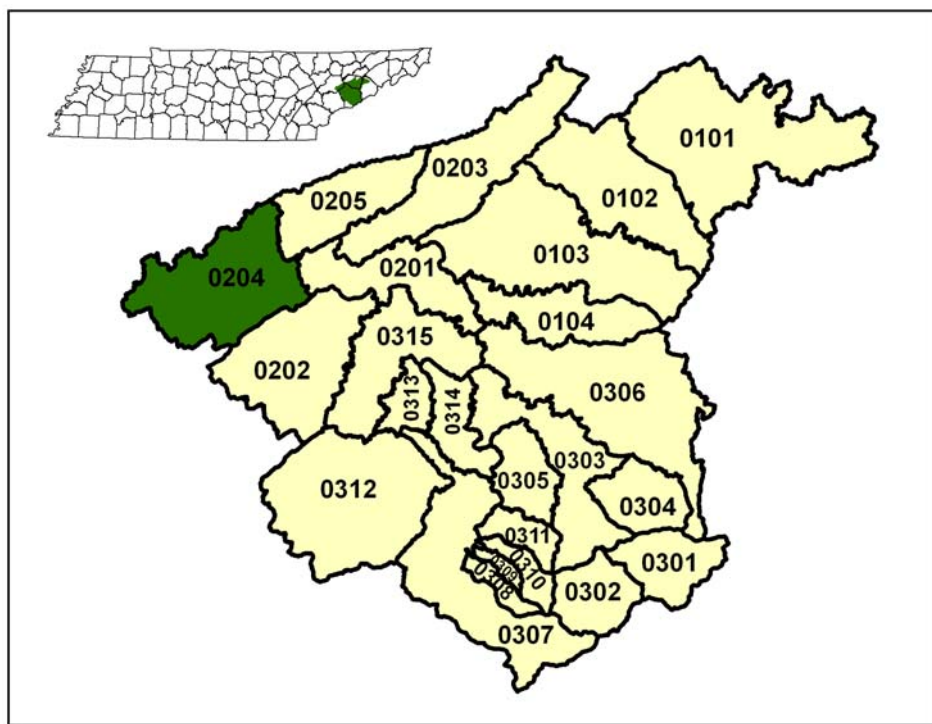


Figure 4-82. Location of Subwatershed 060101070204. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

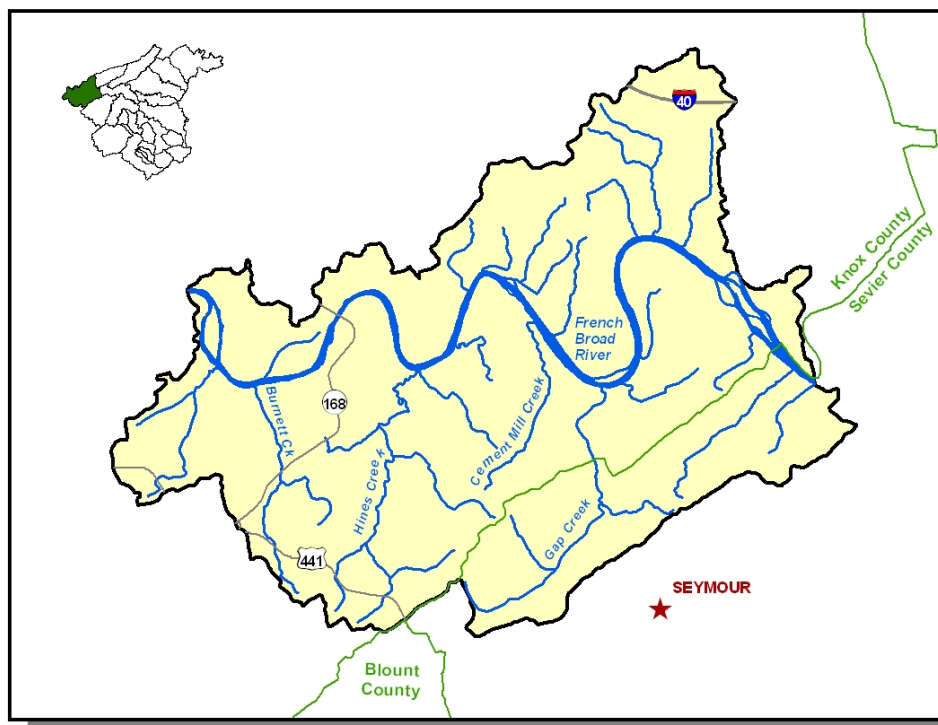


Figure 4-83. Locational Details of Subwatershed 060101070204.

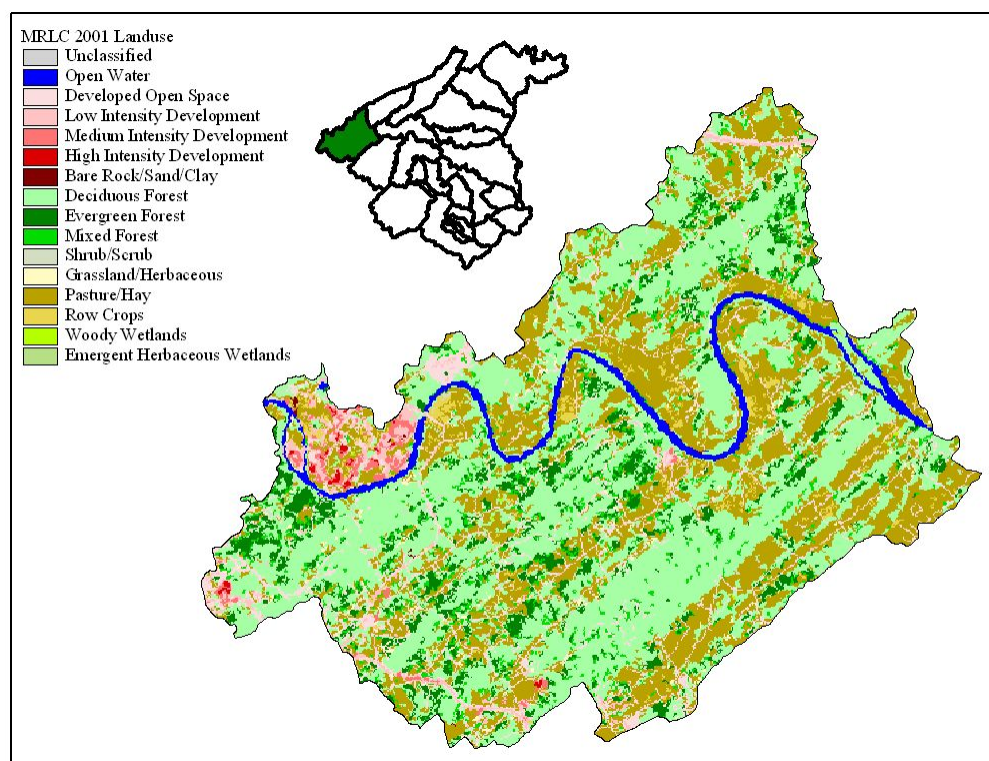


Figure 4-84. Illustration of Land Use Distribution in Subwatershed 060101070204.

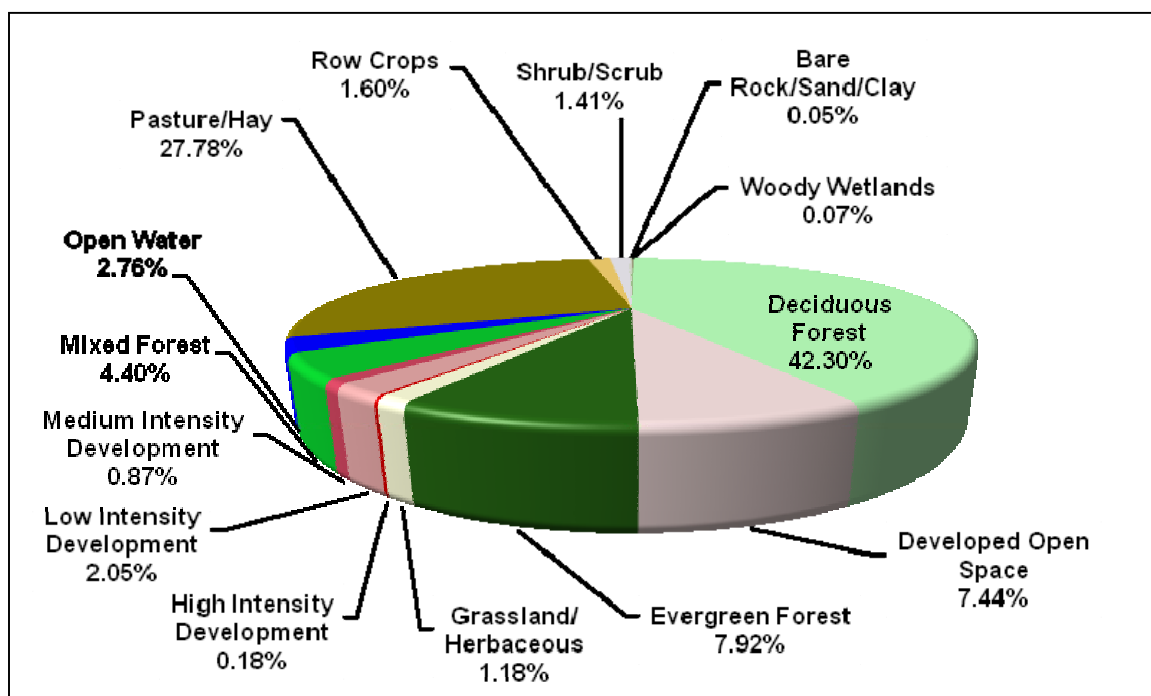


Figure 4-85. Land Use Distribution in Subwatershed 060101070204. More information is provided in Appendix IV.

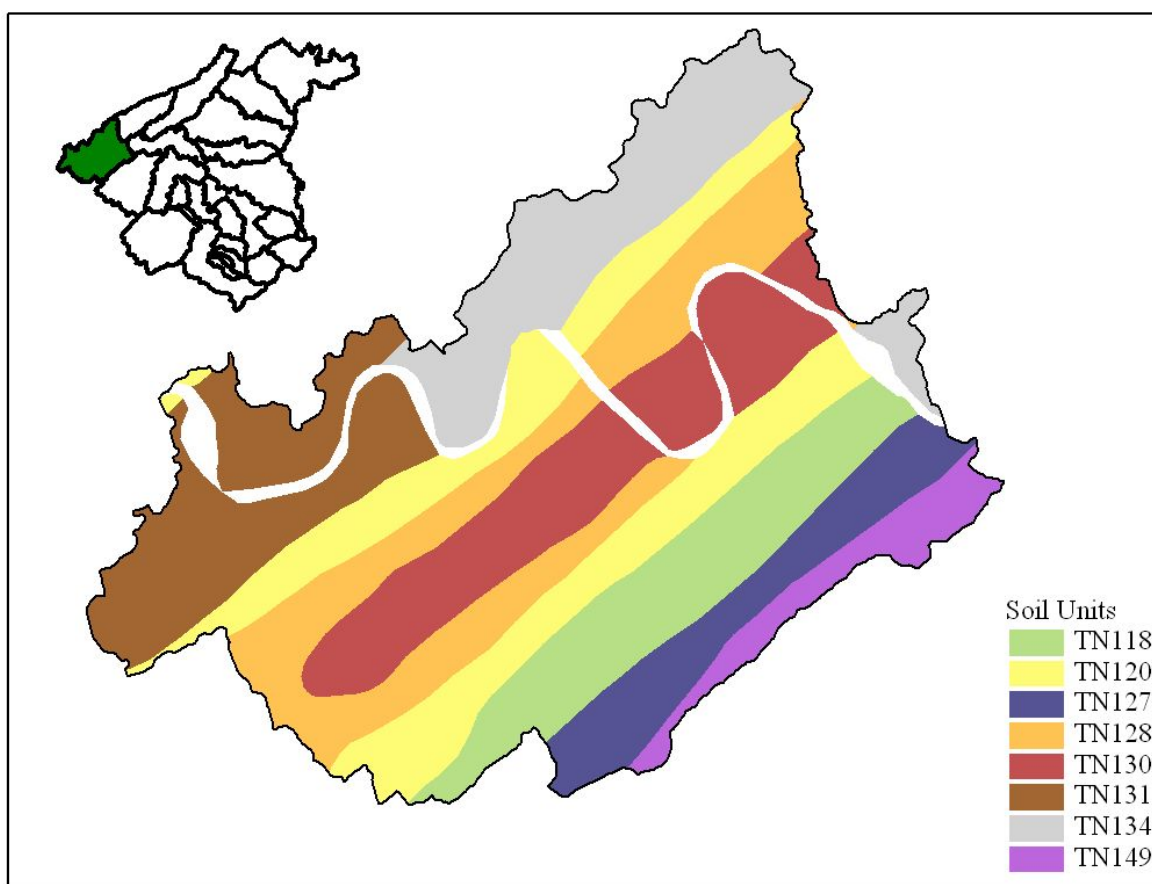


Figure 4-86. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070204.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN118	0.00	C	6.52	5.12	Loam	0.29
TN120	0.00	B	1.68	5.11	Loam	0.27
TN127	3.00	C	1.31	5.20	Loam	0.35
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN130	0.00	C	1.34	6.09	Silty Loam	0.42

Table 4-42. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070204. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Knox	33,5749	365,900	382,032	7.68	25,784	28,099	29,338	13.80
Sevier	51,043	62,774	71,170	1.58	805	990	1122	39.40
Totals	386,792	428,674	453,202		26,589	29,089	30,460	14.60

Table 4-43. Population Estimates in Subwatershed 060101070204.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Knoxville	Knox	165,121	76,453	74,884	1,521	48

Table 4-44. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070204.

4.2.H.ii. USGS Gaging Stations and STORET Sites

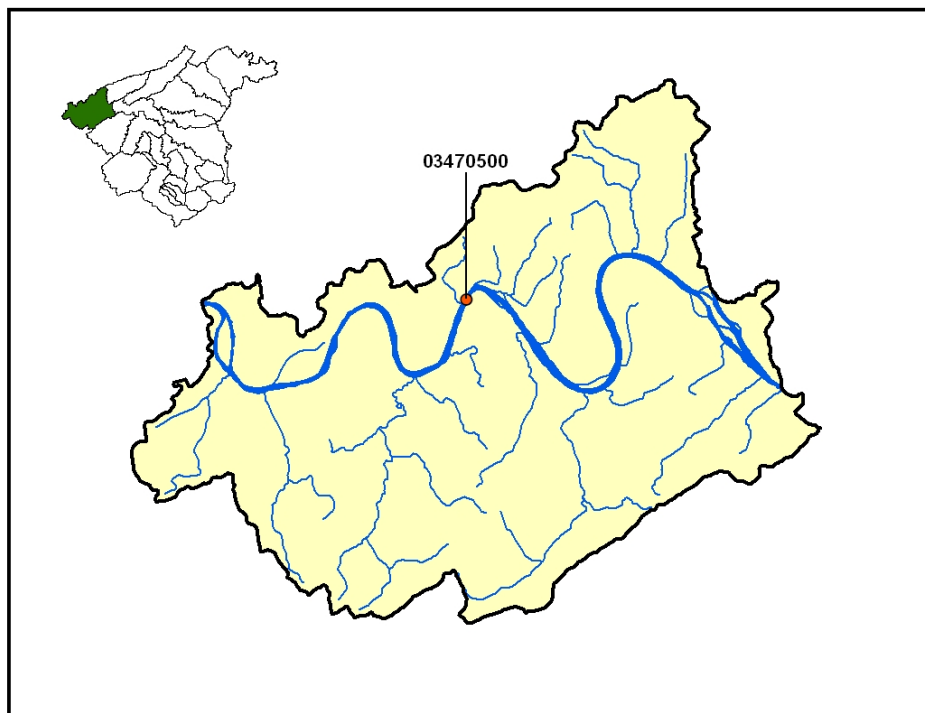


Figure 4-87. Location of USGS Continuous Record Gaging Stations in Subwatershed 060101070204. More information is provided in Appendix IV.

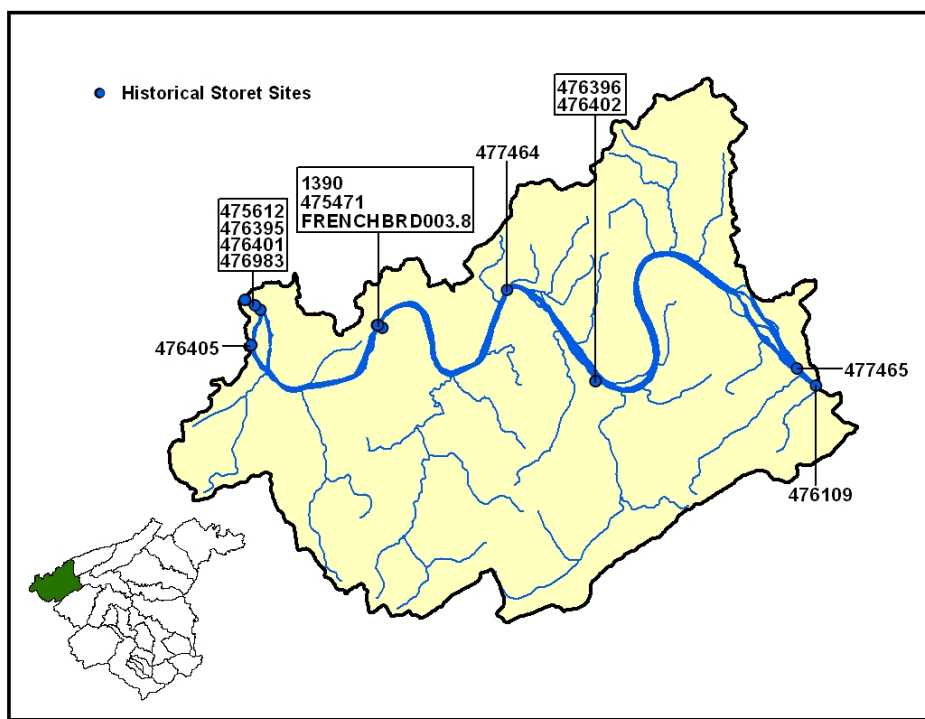


Figure 4-88. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070204. More information, including site names and locations, is provided in Appendix IV.

4.2.H.iii. Permitted Activities.

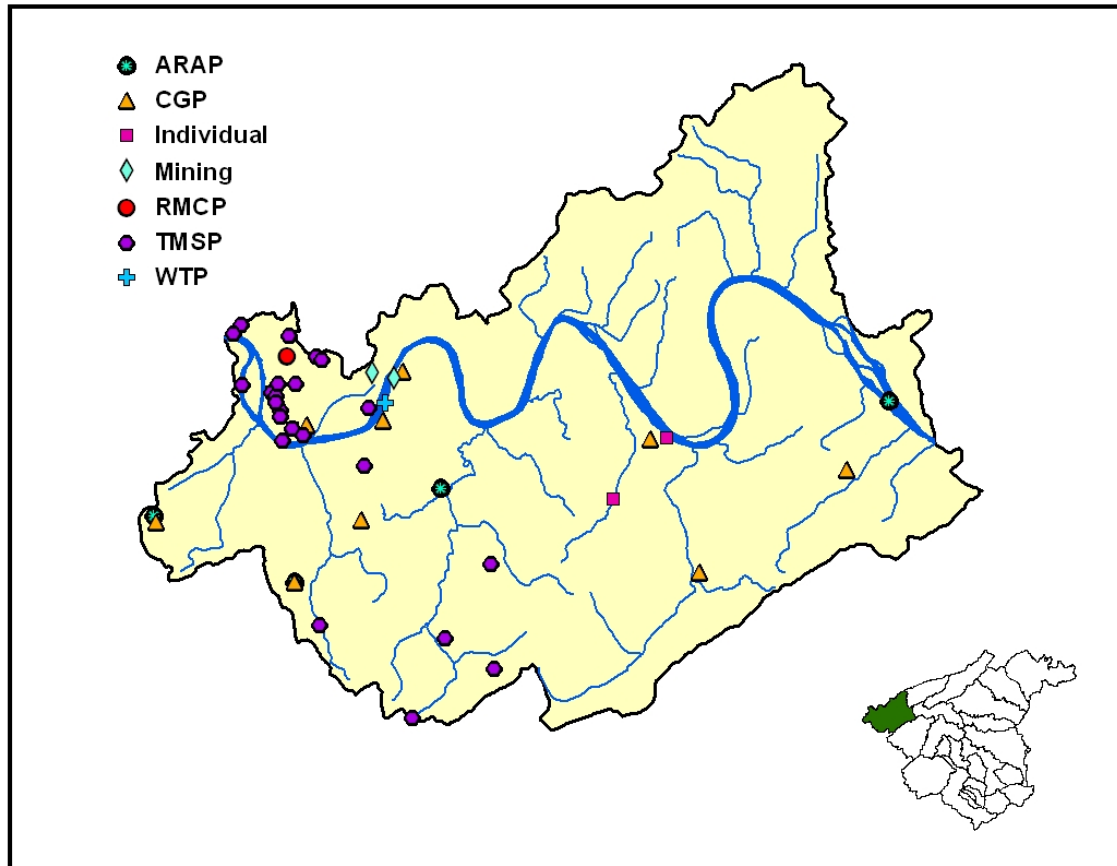


Figure 4-89. Location of Permits Issued in Subwatershed 060101070204 More information, including the names of facilities, is provided in Appendix IV.

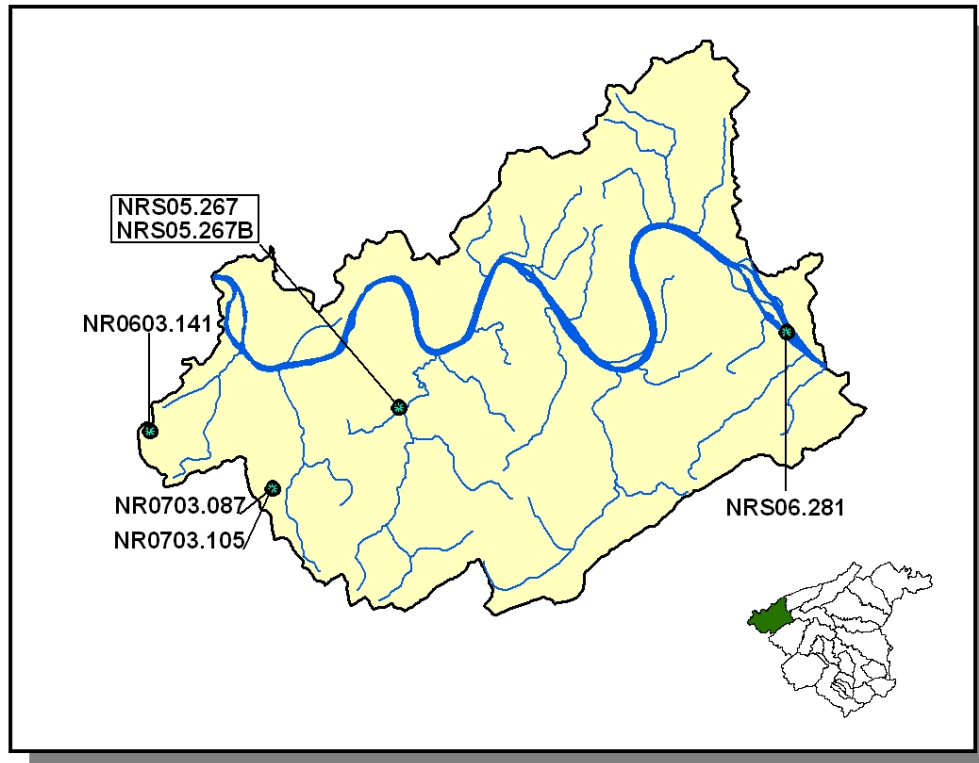


Figure 4-90. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070204. More information is provided in Appendix IV.

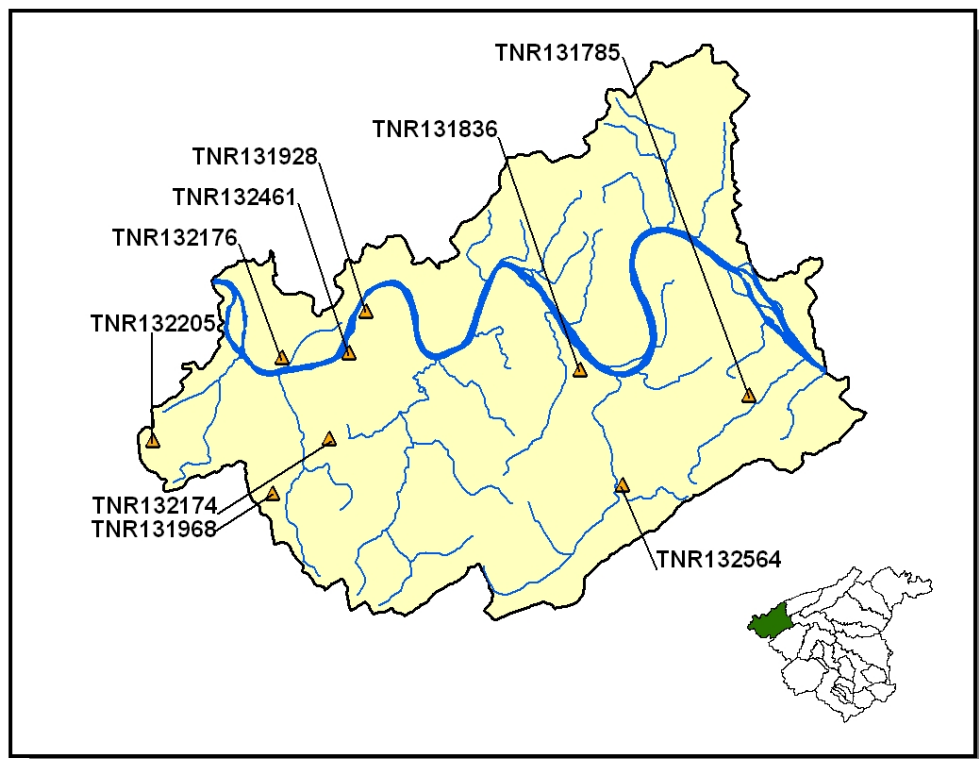


Figure 4-91. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070204. More information is provided in Appendix IV.

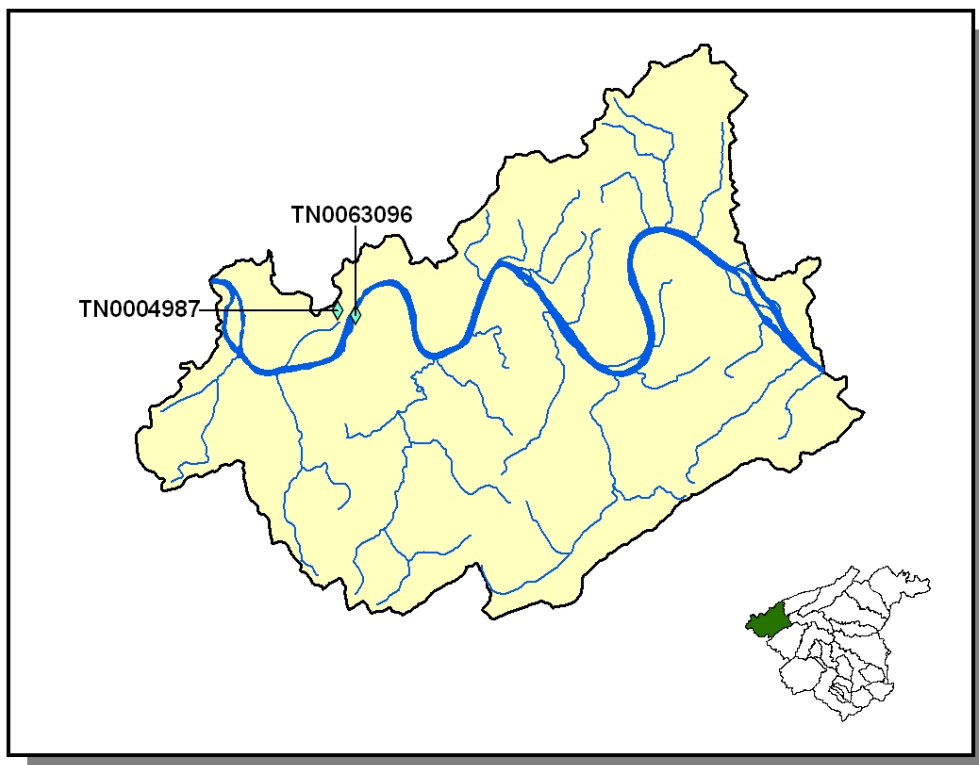


Figure 4-92. Location of permitted MINING facilities in Subwatershed 060101070204. More information is provided in Appendix IV.

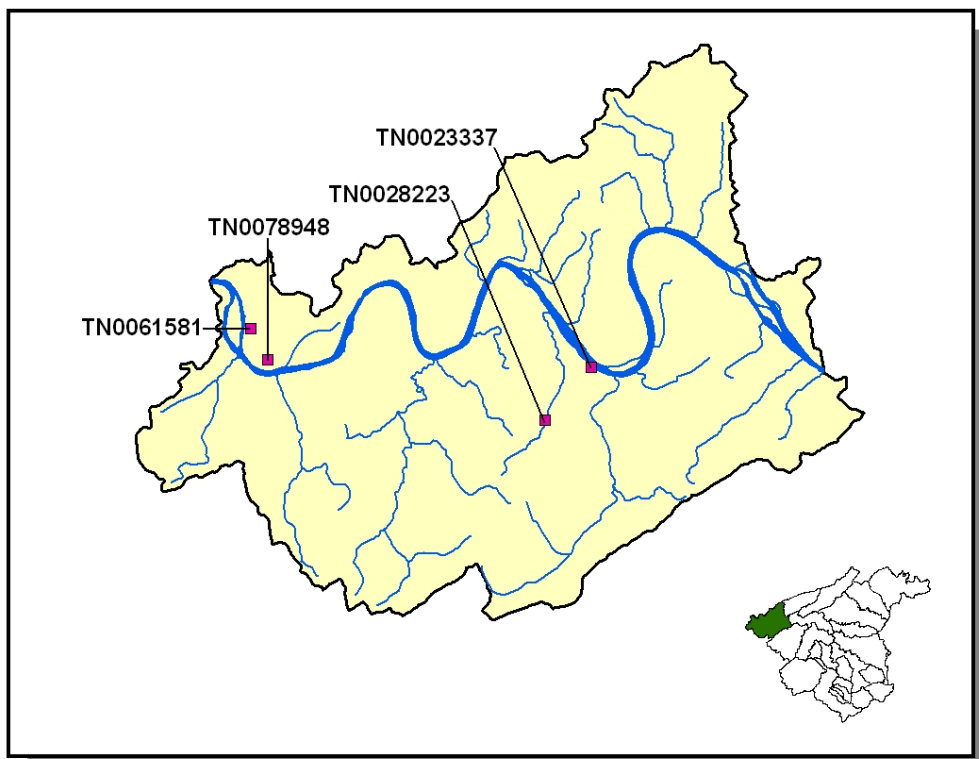


Figure 4-93. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070204. More information, including the name of the facility is provided in Appendix IV.

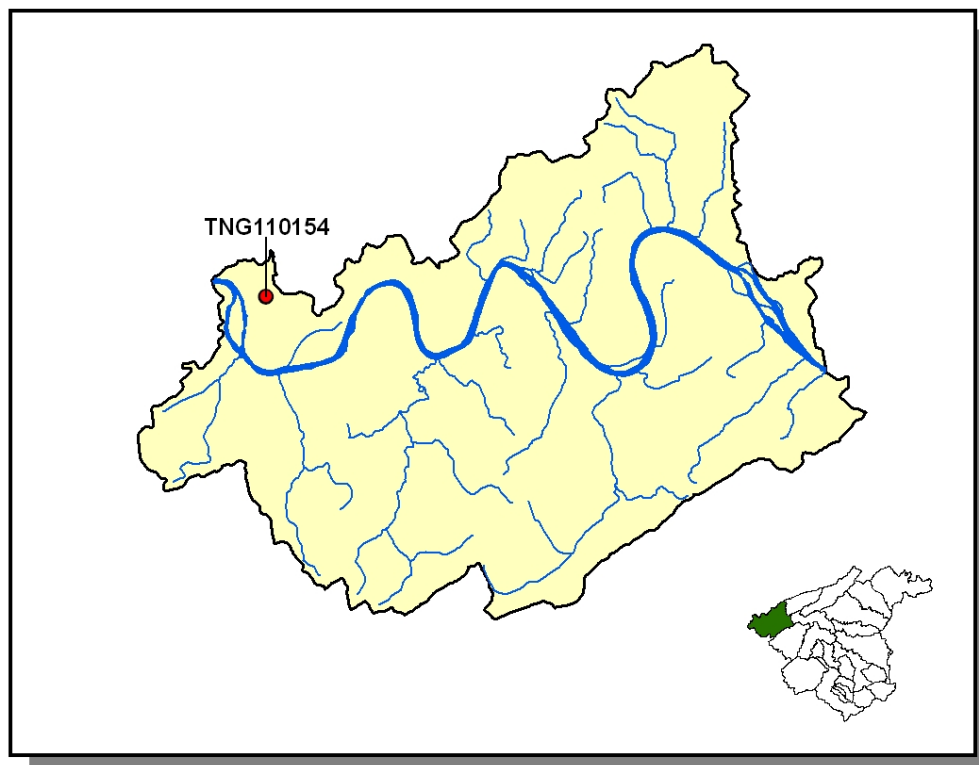


Figure 4-94. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070204. More information, including the names of facilities, is provided in Appendix IV.

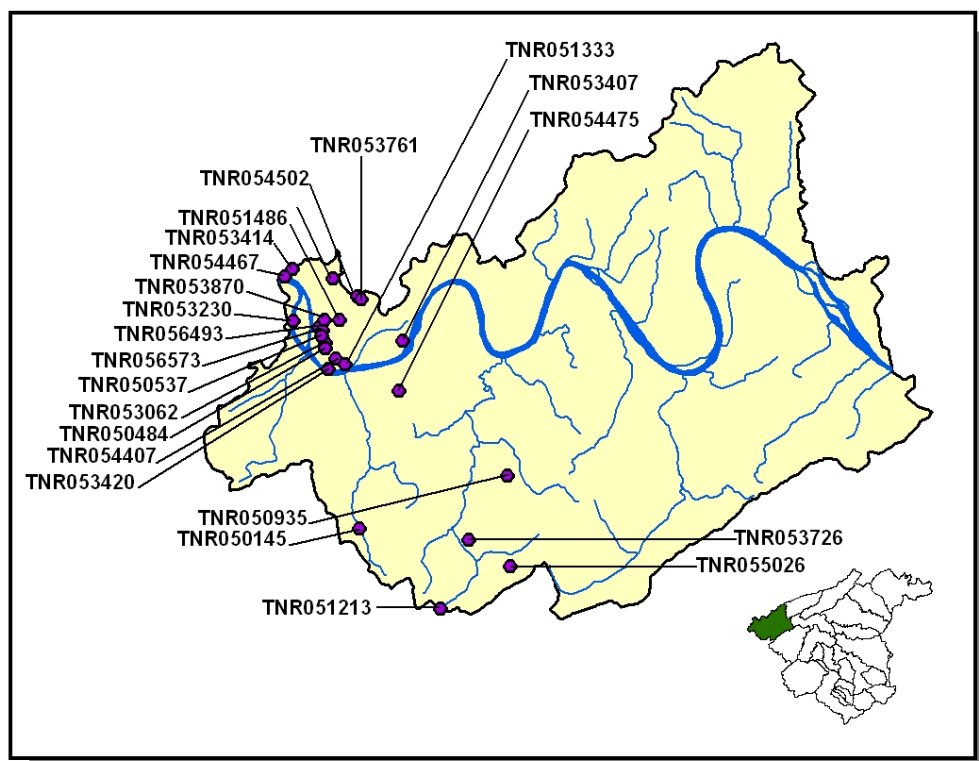


Figure 4-95. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070204. More information is provided in Appendix IV.

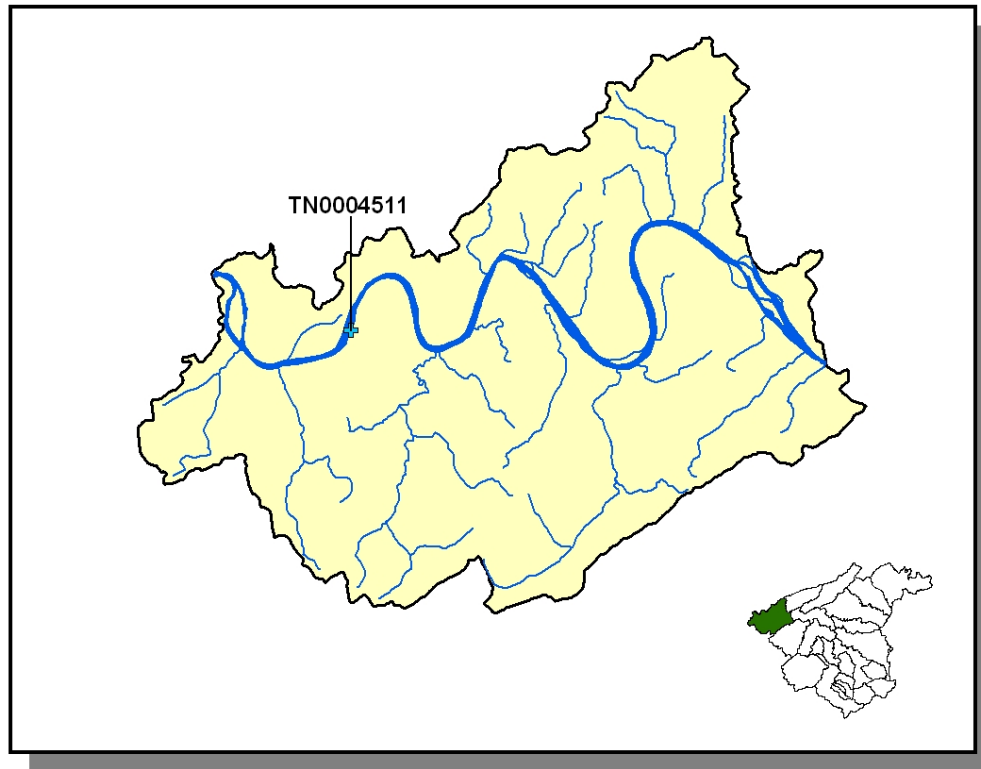


Figure 4-96. Location of Active WTP Facilities in Subwatershed 060101070204. More information, including the names of facilities, is provided in Appendix IV.

4.2.H.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Knox	12,424	24,664	855	2,056	851	649
Sevier	9,816	19,013	172	26	394	234

Table 4-45. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), “Cattle” includes heifers, heifer calves, steers, bulls and bull calves; “Chickens” are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Knox	127.5	127.0	2.2	8.2
Sevier	254.5	127.4	0.3	0.9

Table 4-46. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Soybeans (Row Crops)	15.54
Wheat (Close Grown Cropland)	5.42
Summer Fallow (Other Cropland)	3.31
Corn (Row Crops)	1.87
Grass (Pastureland)	0.82
Grass Forbs Legumes Mixed (Pastureland)	0.47
Legume Grass (Hayland)	0.21
Farmsteads and Ranch Headquarters	0.18
Grass (Hayland)	0.14

Table 4-47. Annual Estimated Total Soil Loss in Subwatershed 060101070204.

4.2.I. 060101070205 (Tuckahoe Creek)

4.2.I.i. General Description

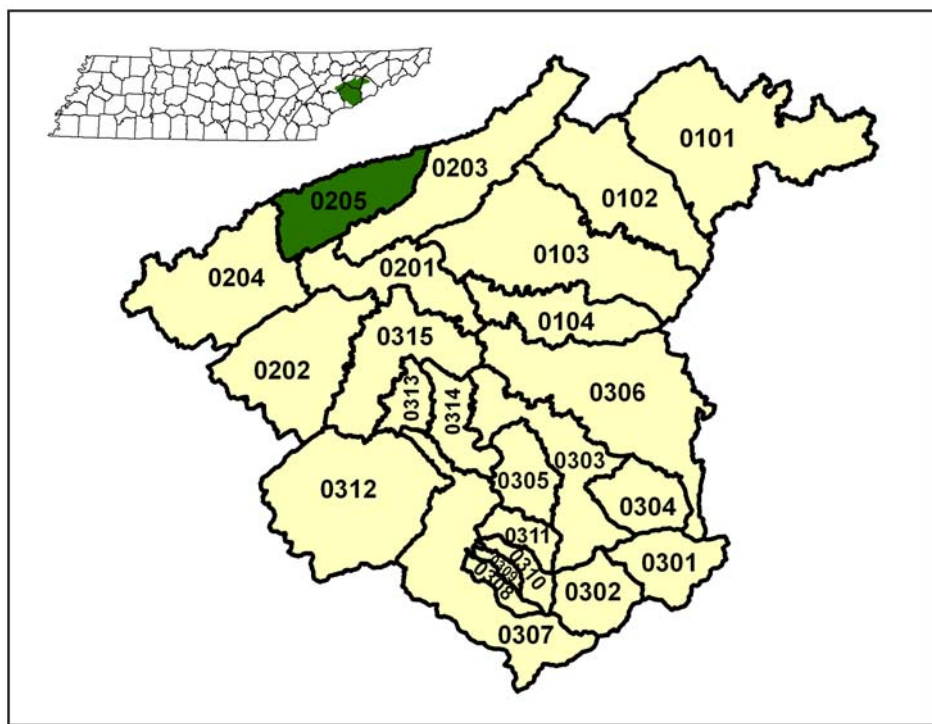


Figure 4-97. Location of Subwatershed 060101070205. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

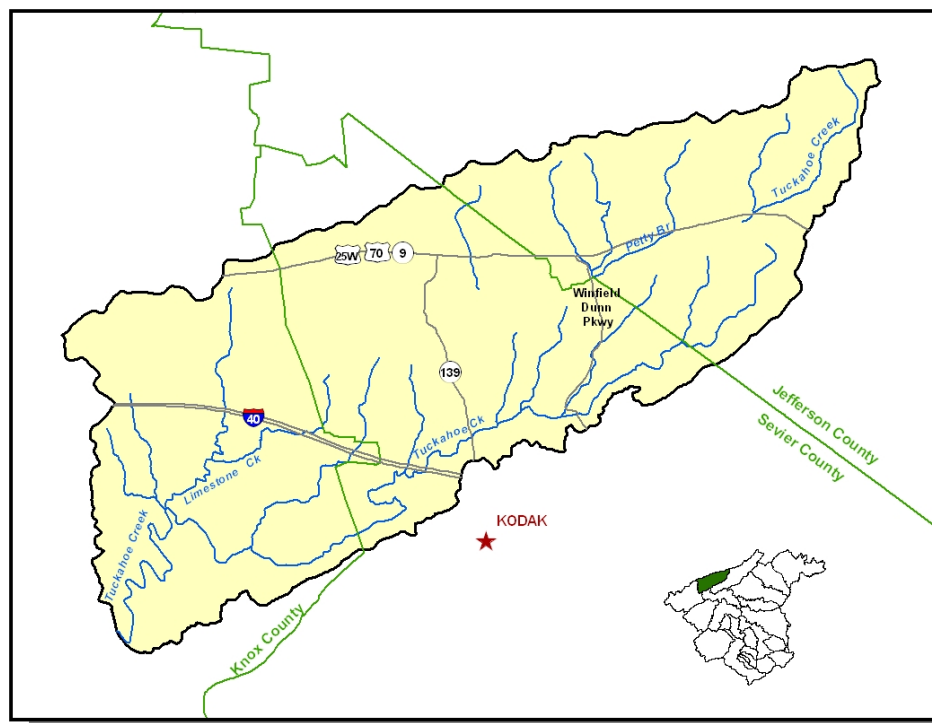


Figure 4-98. Locational Details of Subwatershed 060101070205.

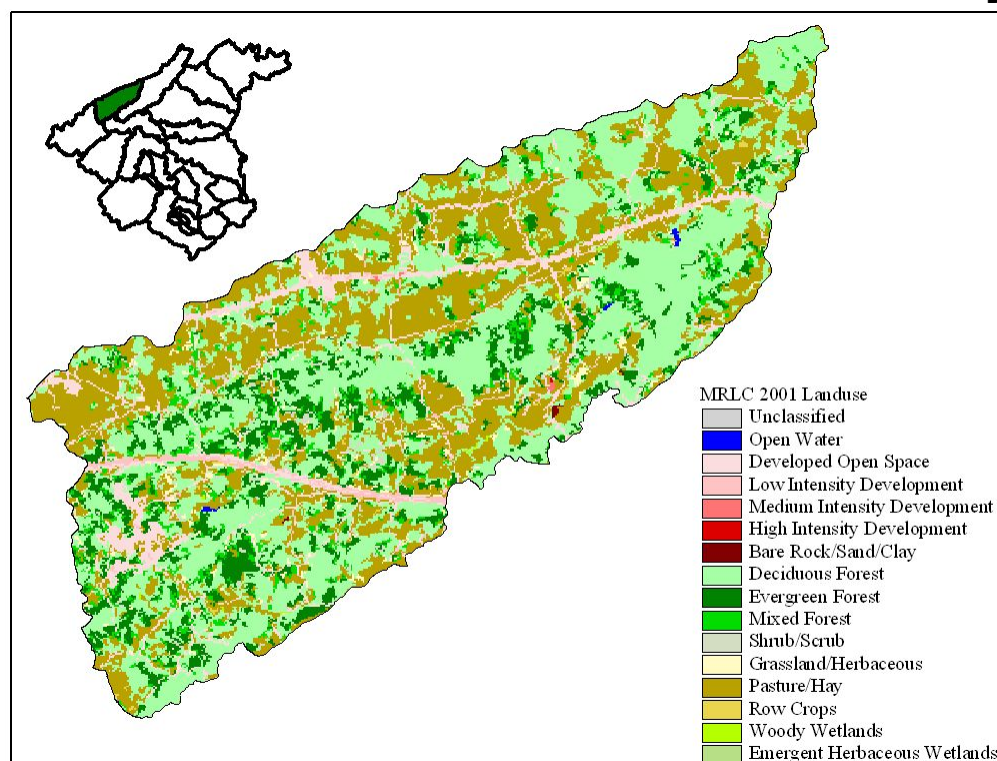


Figure 4-99. Illustration of Land Use Distribution in Subwatershed 060101070205.

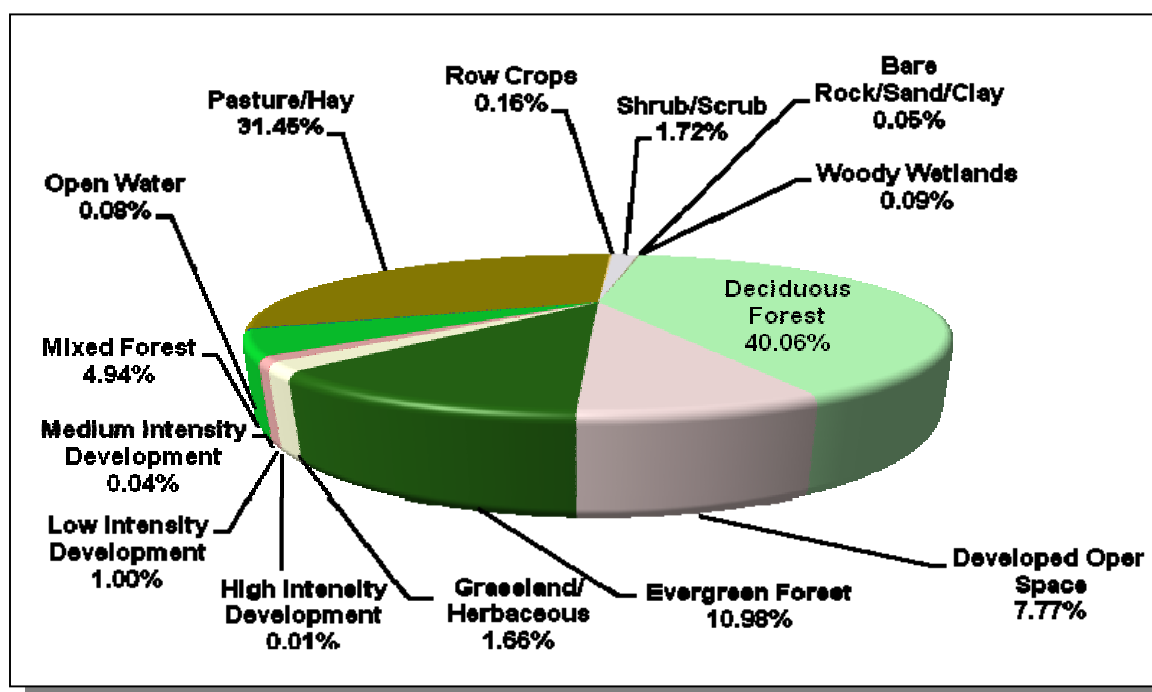


Figure 4-100. Land Use Distribution in Subwatershed 060101070205. More information is provided in Appendix IV.

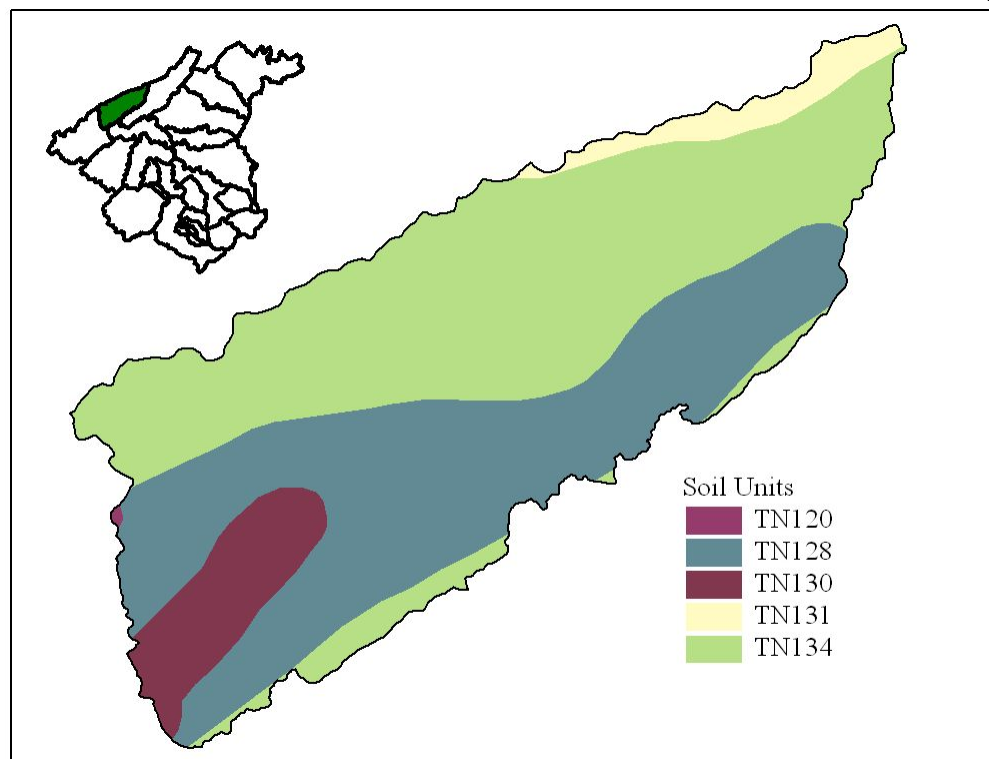


Figure 4-101. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070205.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN120	0.00	B	1.68	5.11	Loam	0.27
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN130	0.00	C	1.34	6.09	Silty Loam	0.42
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31

Table 4-48. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070205. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Jefferson	33,016	42,168	44,294	2.68	886	1132	1,189	34.20
Knox	335,749	365,900	382,032	2.16	7,238	7,888	8,236	13.80
Sevier	51,043	62,774	71,170	1.38	705	867	983	39.40
Total	419,808	470,842	497,496		8,829	9,887	10,408	17.90

Table 4-49. Population Estimates in Subwatershed 060101070205.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Sevierville	Sevier	7,178	3,321	2,632	686	3

Table 4-50. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070205.

4.2.1.ii USGS Gaging Stations and STORET Sites

There are no USGS Gaging Stations or STORET Sites located in Subwatershed 060101070205.

4.2.1.iii Permitted Activities.

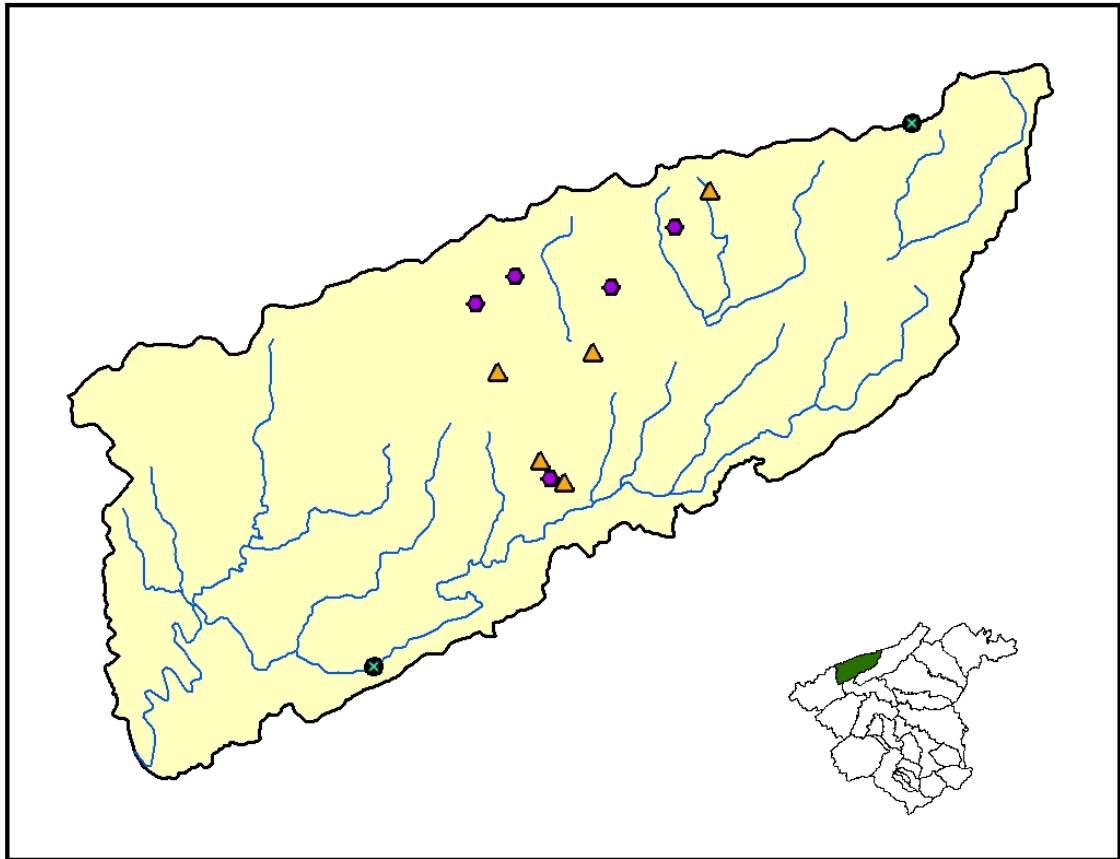


Figure 4-102. Location of Permits Issued in Subwatershed 060101070205. More information, including the names of facilities, is provided in Appendix IV.

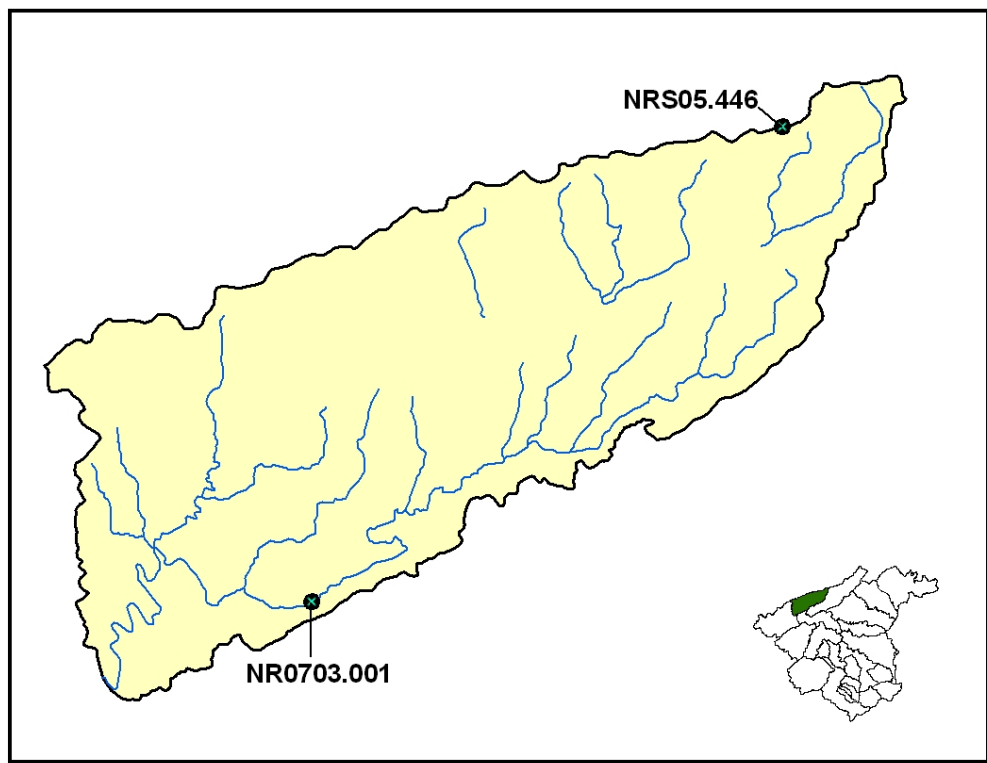


Figure 4-103. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070205. More information is provided in Appendix IV.

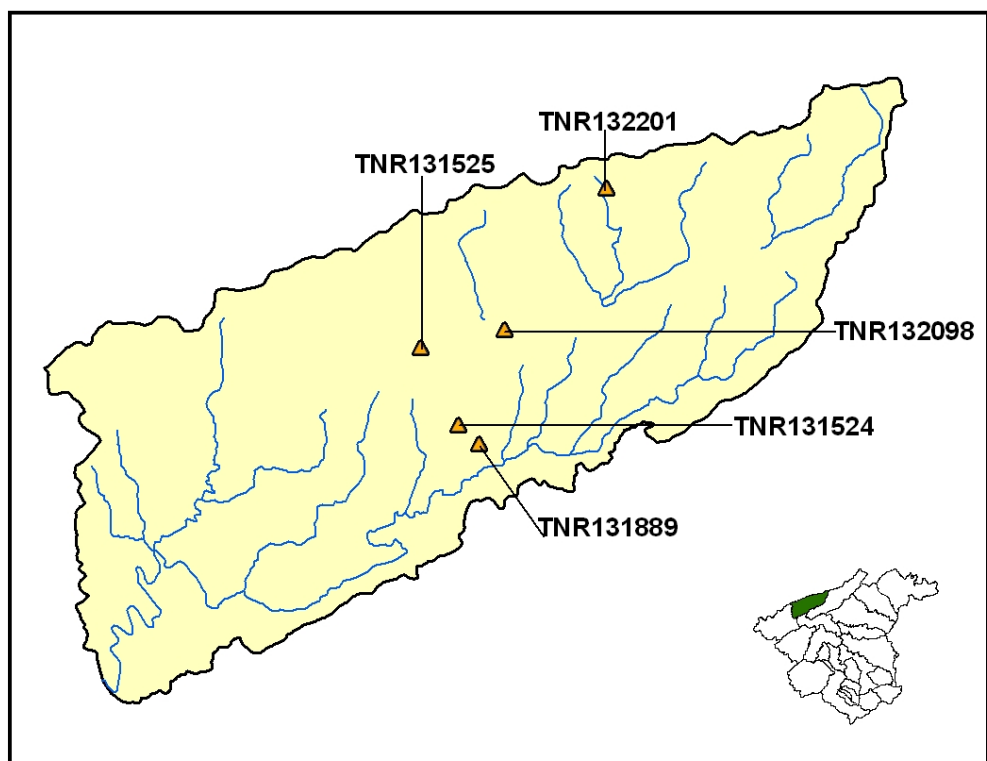


Figure 4-104. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070205. More information is provided in Appendix IV.

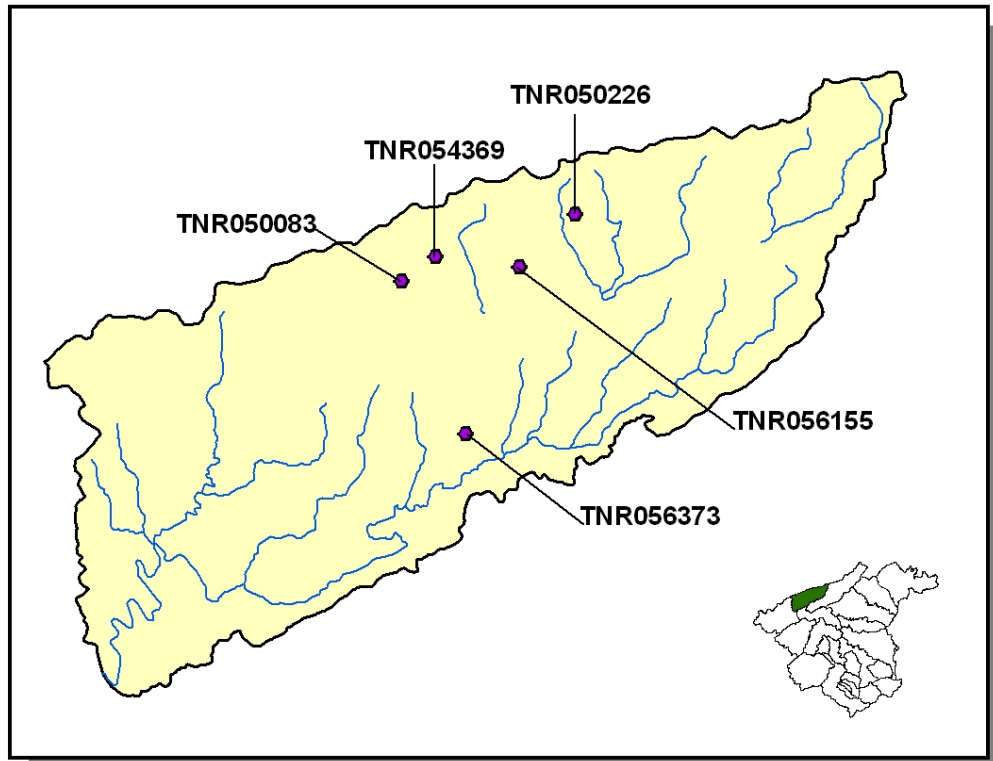


Figure 4-105. Location of TMS (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070205. More information is provided in Appendix IV.

4.2.I.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Jefferson	16,126	35,718	1,878	1,633	183	567
Knox	12,424	24,664	855	2,056	851	649
Sevier	9,816	19,013	172	26	394	234

Table 4-51. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Jefferson	62.2	62.2	0.6	1.8
Knox	127.5	127.0	2.2	8.2
Sevier	254.5	127.4	0.3	0.9

Table 4-52. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Soybeans (Row Crops)	15.54
Oats (Close Grown Cropland)	13.51
Tobacco (Row Crops)	9.64
Corn (Row Crops)	8.79
Wheat (Close Grown Cropland)	6.61
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.67
Grass Forbs Legumes Mixed (Pastureland)	0.46
Legume Grass (Hayland)	0.23
Grass (Hayland)	0.18
Farmsteads and Ranch Headquarters	0.13

Table 4-53. Annual Estimated Total Soil Loss in Subwatershed 060101070205.

4.2.J. 060101070301 (Middle Prong Little Pigeon River)

4.2.J.i. General Description

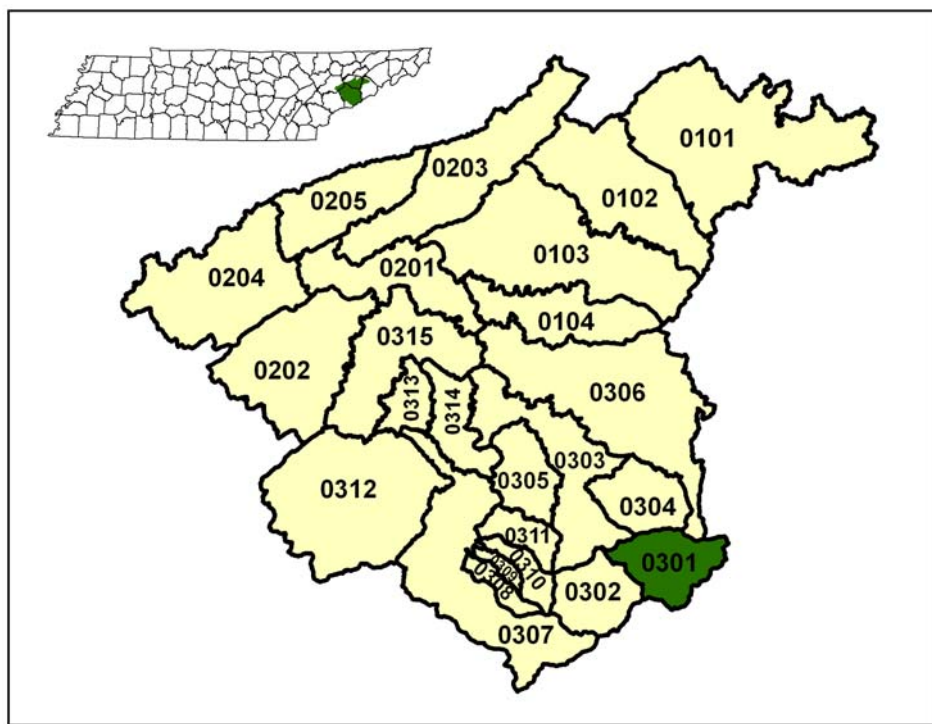


Figure 4-106. Location of Subwatershed 060101070301. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

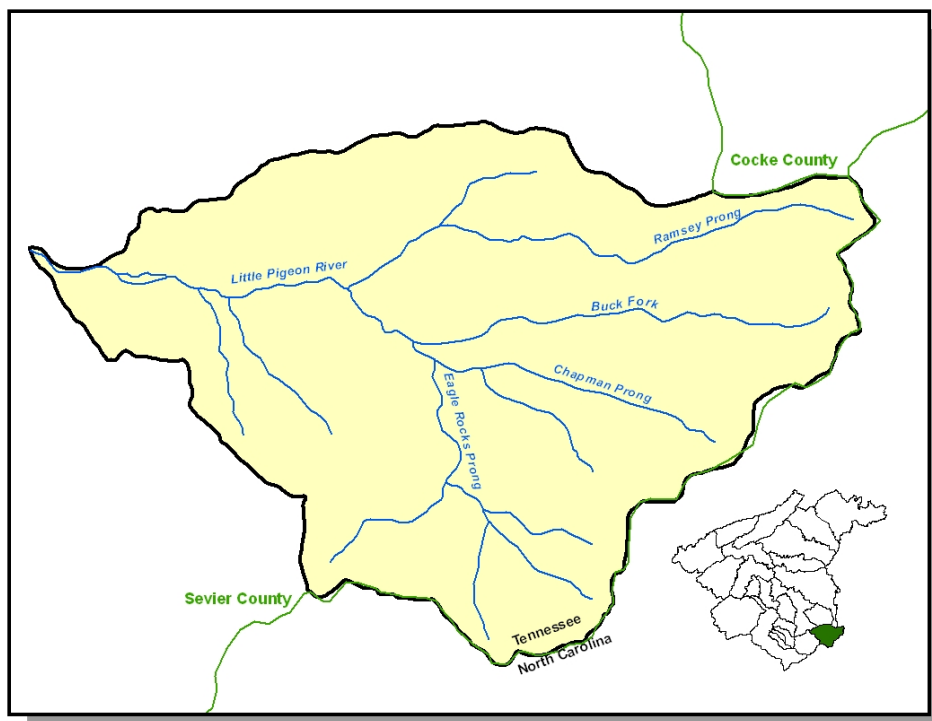


Figure 4-107. Locational Details of Subwatershed 060101070301.

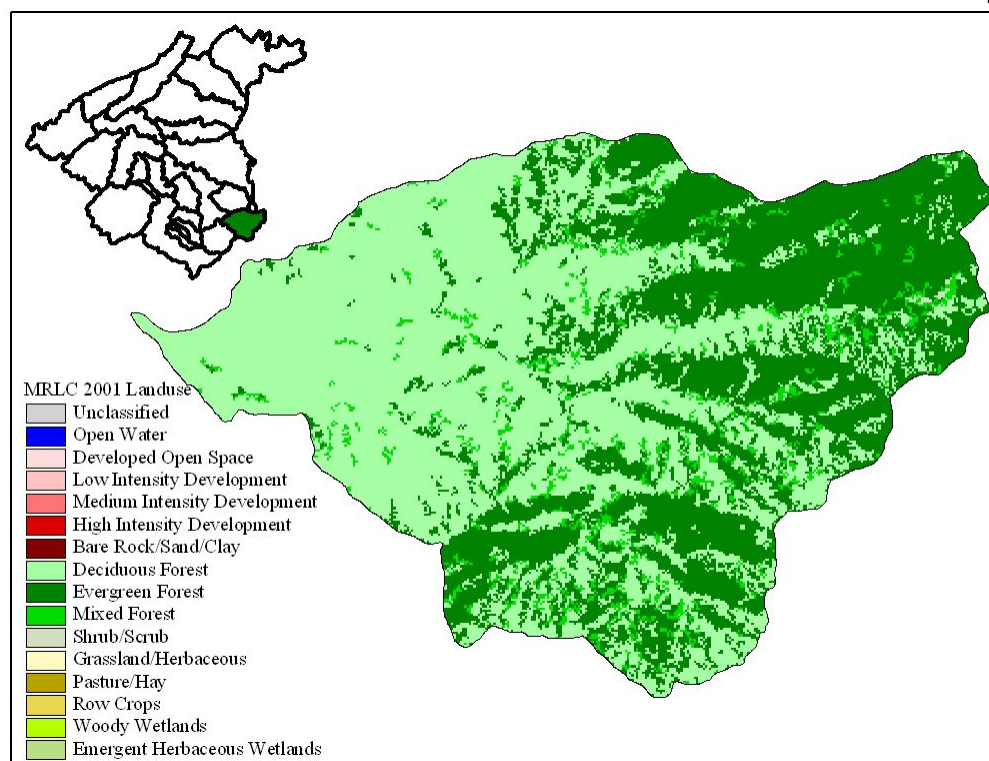


Figure 4-108. Illustration of Land Use Distribution in Subwatershed 060101070301.

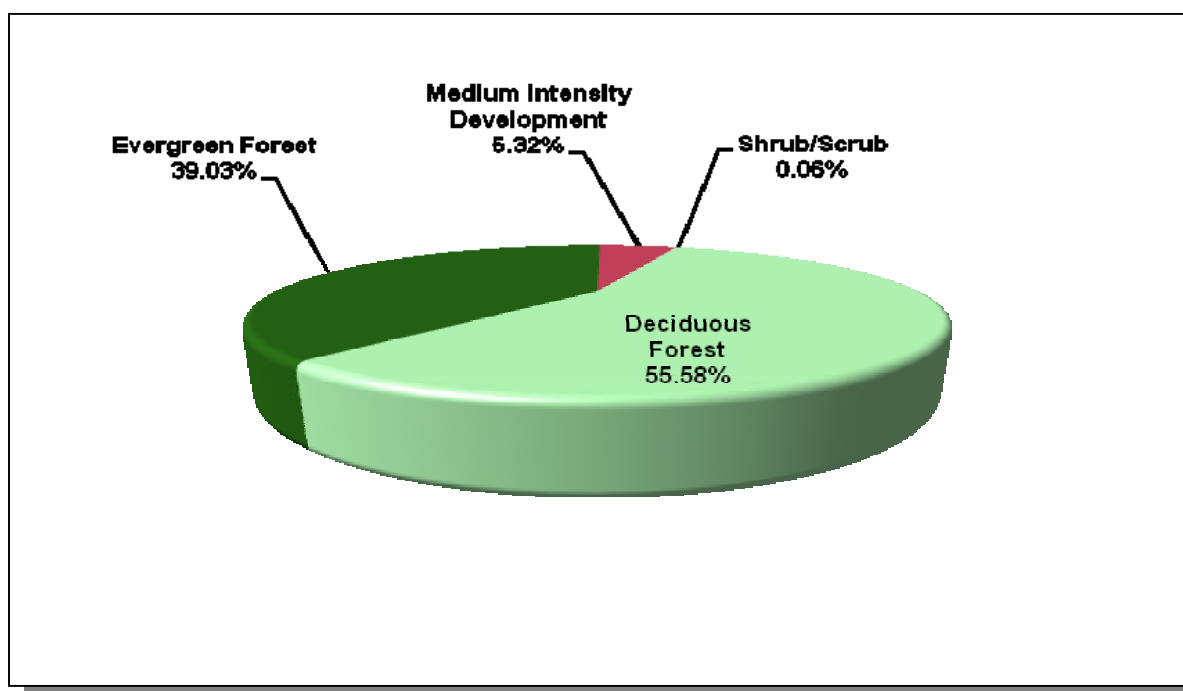


Figure 4-109. Land Use Distribution in Subwatershed 060101070301. More information is provided in Appendix IV.

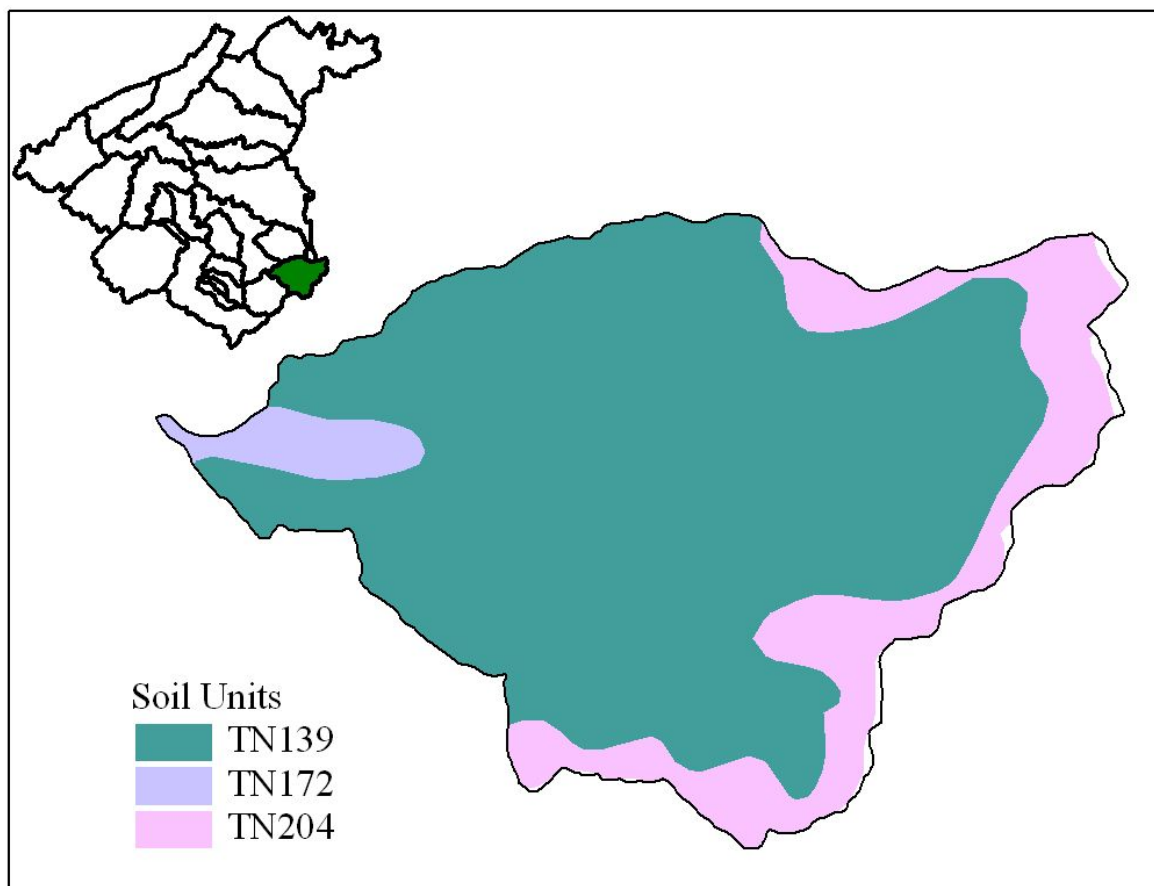


Figure 4-110. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070301.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN172	0.00	B	3.87	5.13	Loam	0.26
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-54. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070301. The definition of "Hydrologic Group" is provided in Appendix IV.

DRAFT

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Cocke	29,141	31,657	33,565					
Sevier	51,043	62,774	71,170	3.21	1,640	2,017	2,286	39.40
Tot al	80,184	94,431	104,735					

Table 4-55. Population Estimates in Subwatershed 060101070301.

4.2.J.ii USGS Gaging Stations and STORET Sites

There are no USGS gaging stations located in subwatershed 060101070301.

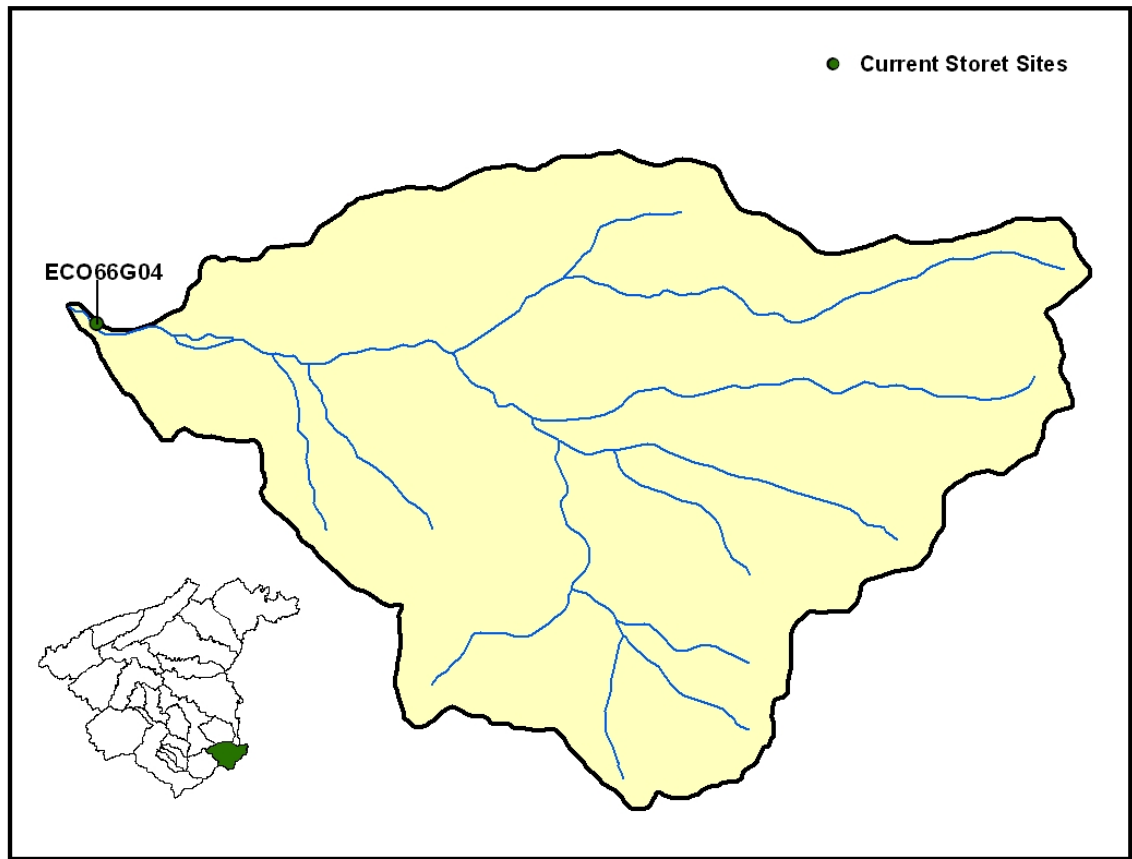


Figure 4-111. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070301. More information, including site names and locations, is provided in Appendix IV.

4.2.J.iii. Permitted Activities.

There are no permitted activities located in subwatershed 060101070205 as of June 30th, 2007.

4.2.J.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cocke	8,169	16,971	1,224	361	269	90
Sevier	9,816	19,013	172	26	394	234

Table 4-56. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cocke	182.0	163.4	3.7	17.4
Sevier	254.5	127.4	0.3	0.9

Table 4-57. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.49
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-58. Annual Estimated Total Soil Loss in Subwatershed 060101070301.

4.2.K. 060101070302 (Porters Creek)

4.2.K.i. General Description

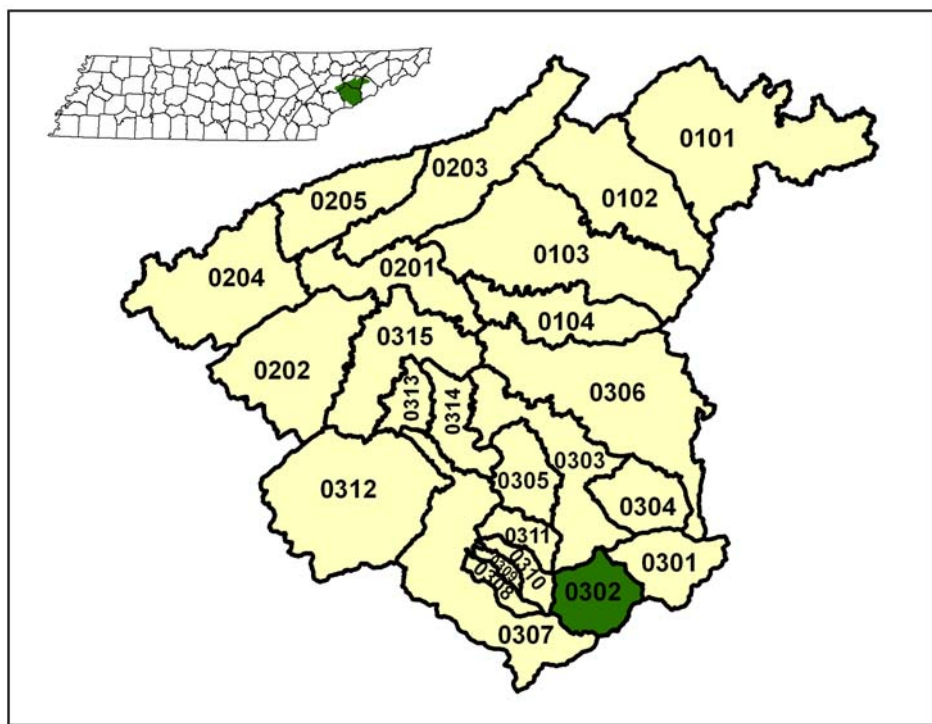


Figure 4-112. Location of Subwatershed 060101070302. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

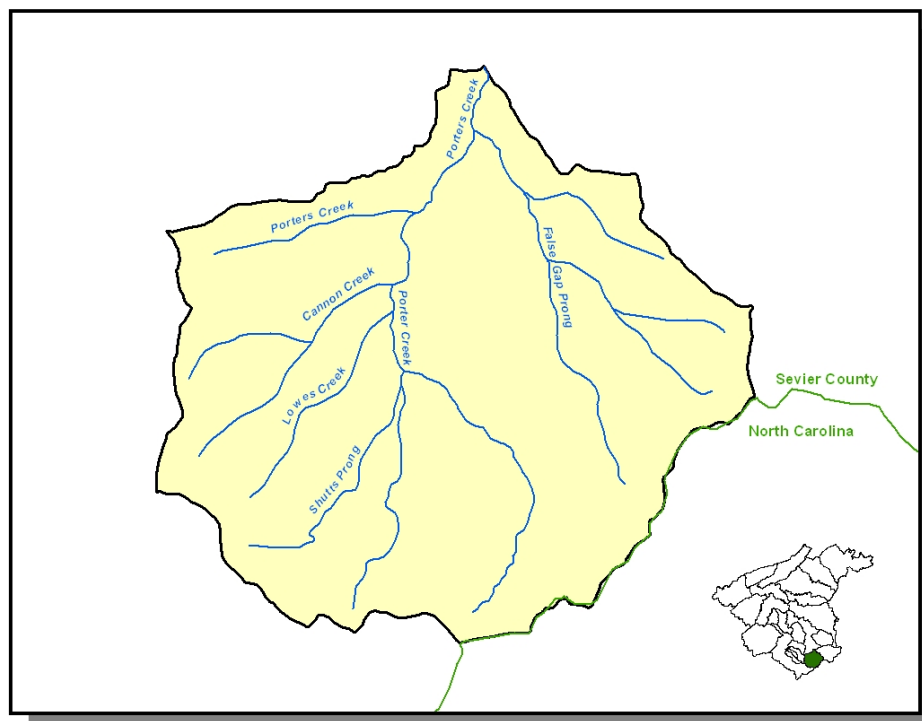


Figure 4-113. Locational Details of Subwatershed 060101070302.

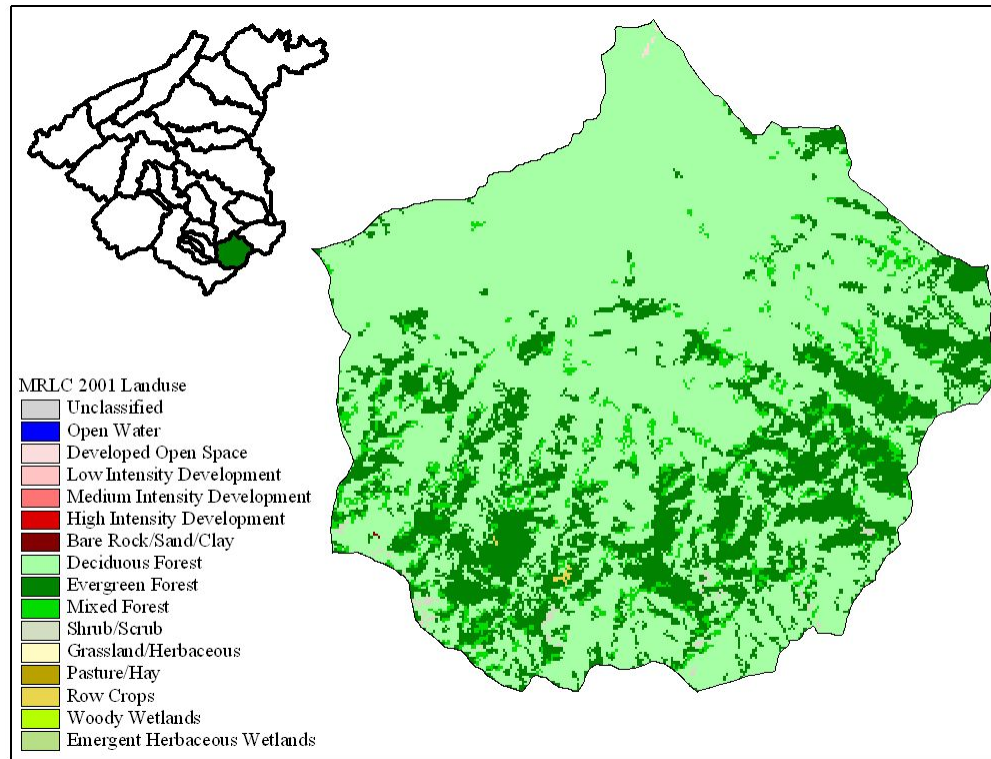


Figure 4-114. Illustration of Land Use Distribution in Subwatershed 060101070302.

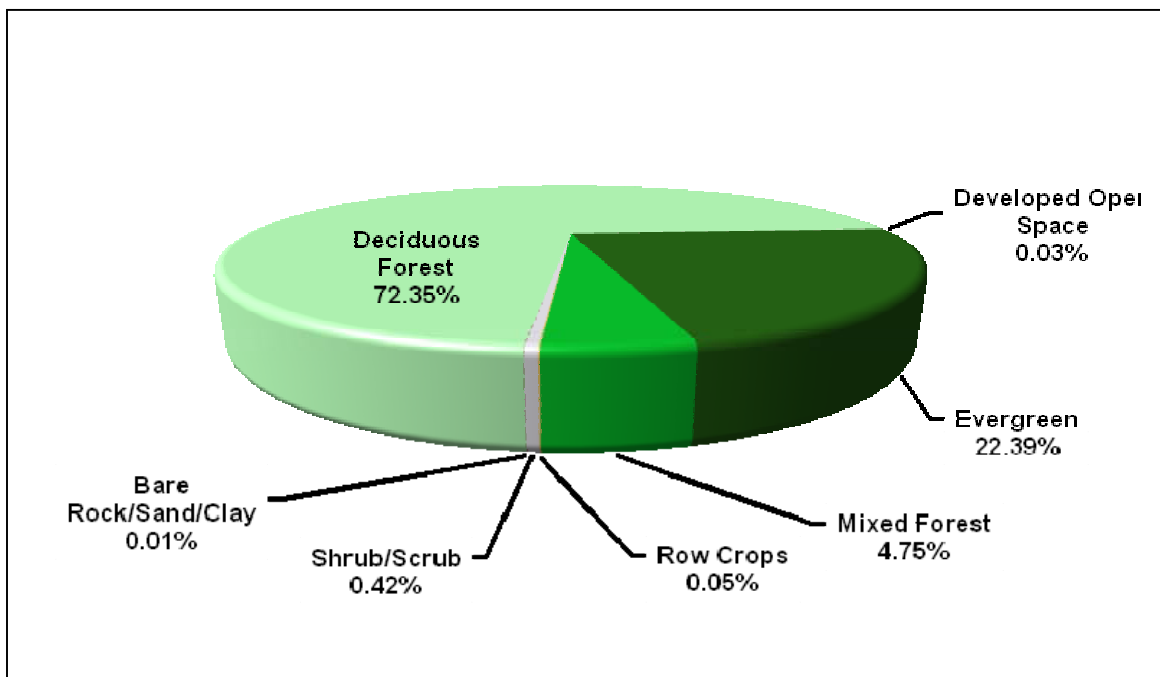


Figure 4-115. Land Use Distribution in Subwatershed 060101070302. More information is provided in Appendix IV.

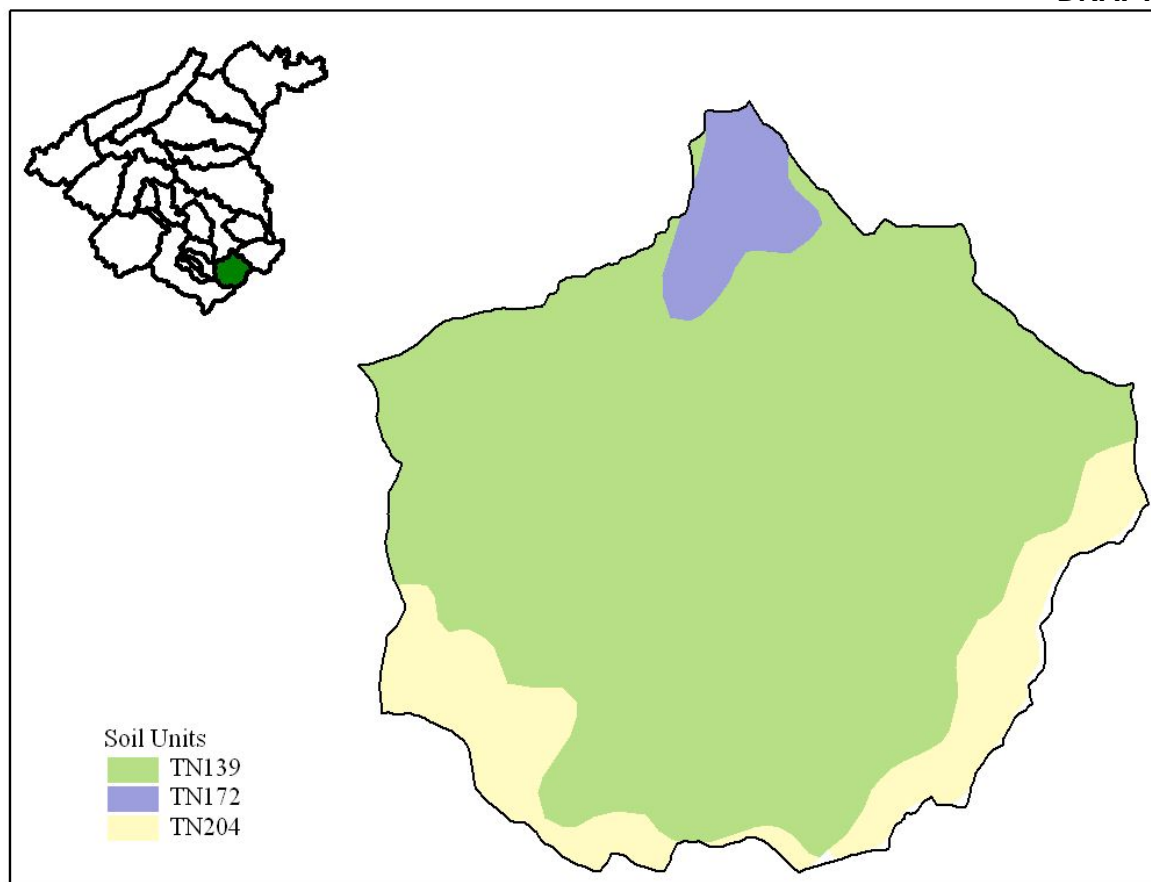


Figure 4-116. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070302.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN172	0.00	B	3.87	5.13	Loam	0.26
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-59. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070302. The definition of "Hydrologic Group" is provided in Appendix IV.

DRAFT

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	2.96	1,513	1,861	2,109	39.40

Table 4-60. Population Estimates in Subwatershed 060101070302.

4.2.K.ii USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070302.

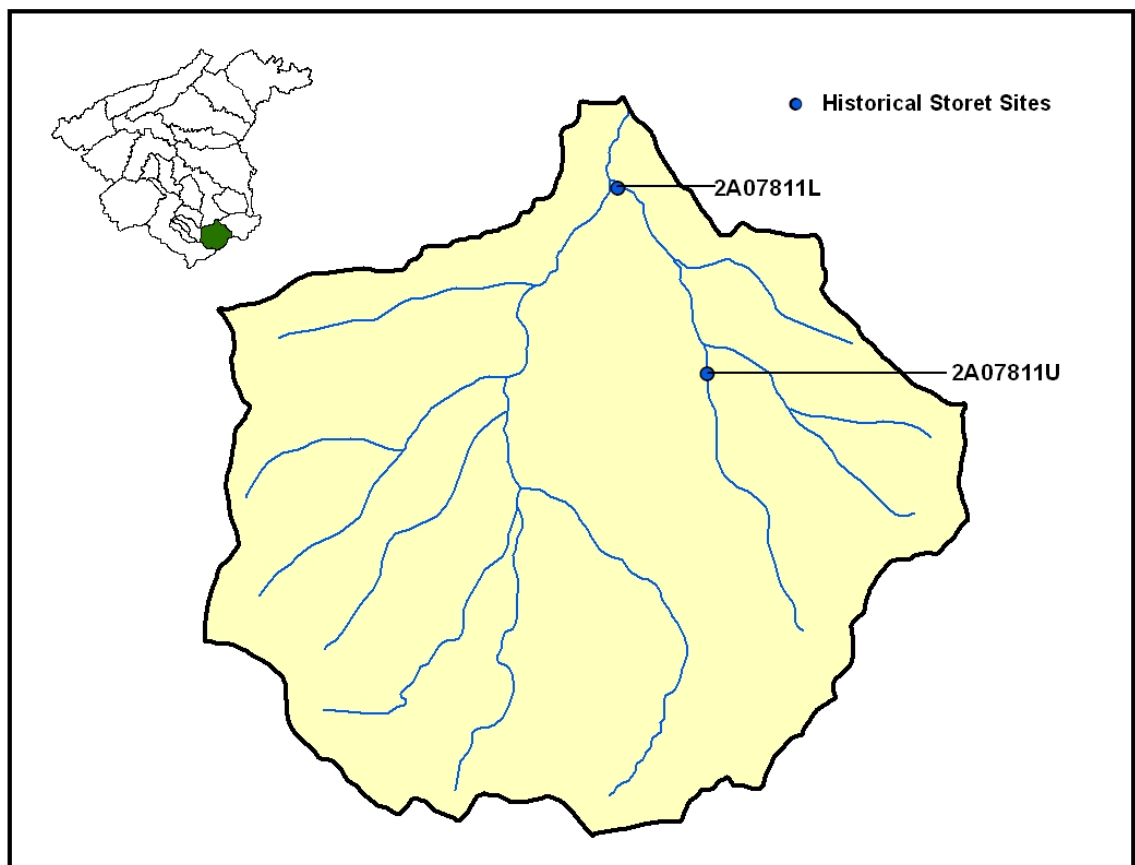


Figure 4-117. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070302. More information, including site names and locations, is provided in Appendix IV.

4.2.K.iii. Permitted Activities.

There are no permitted activities located in subwatershed 060101070302 as of June 30th, 2007.

4.2.K.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-61. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-62. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.49
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.21
Legume Grass (Hayland)	0.06

Table 4-63. Annual Estimated Total Soil Loss in Subwatershed 060101070302.

4.2.L. 060101070303 (East Prong Little Pigeon River)

4.2.L.i. General Description

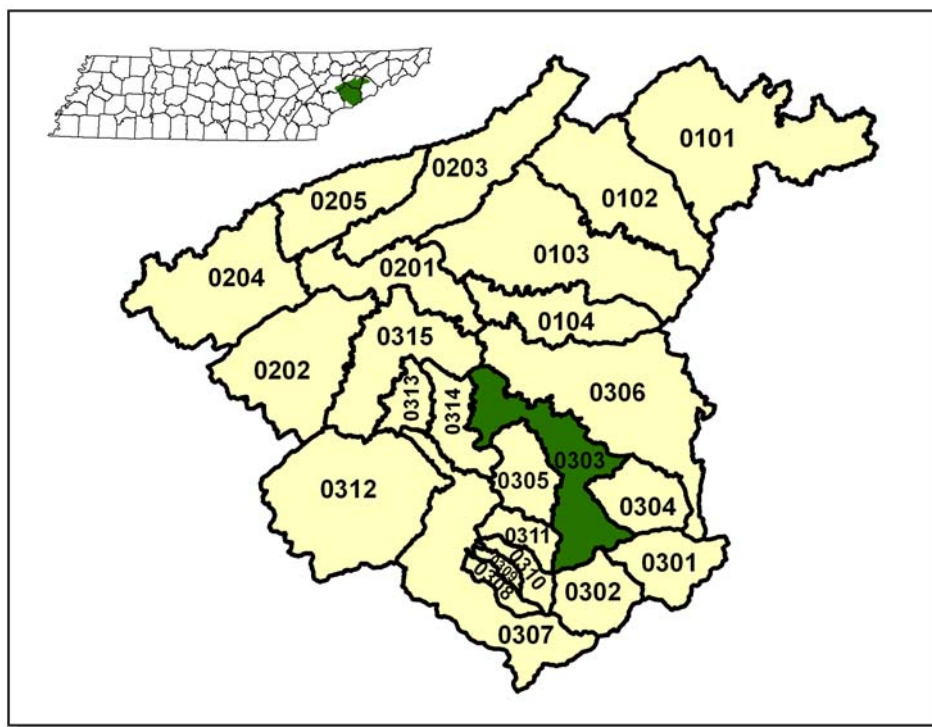


Figure 4-118. Location of Subwatershed 060101070303. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

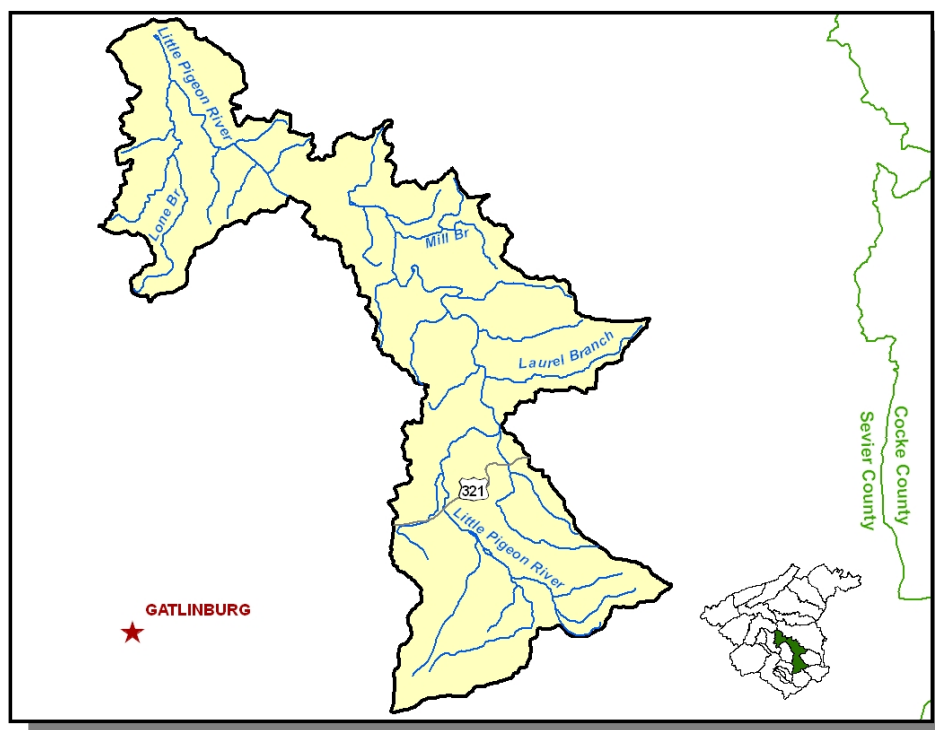


Figure 4-119. Locational Details of Subwatershed 060101070303.

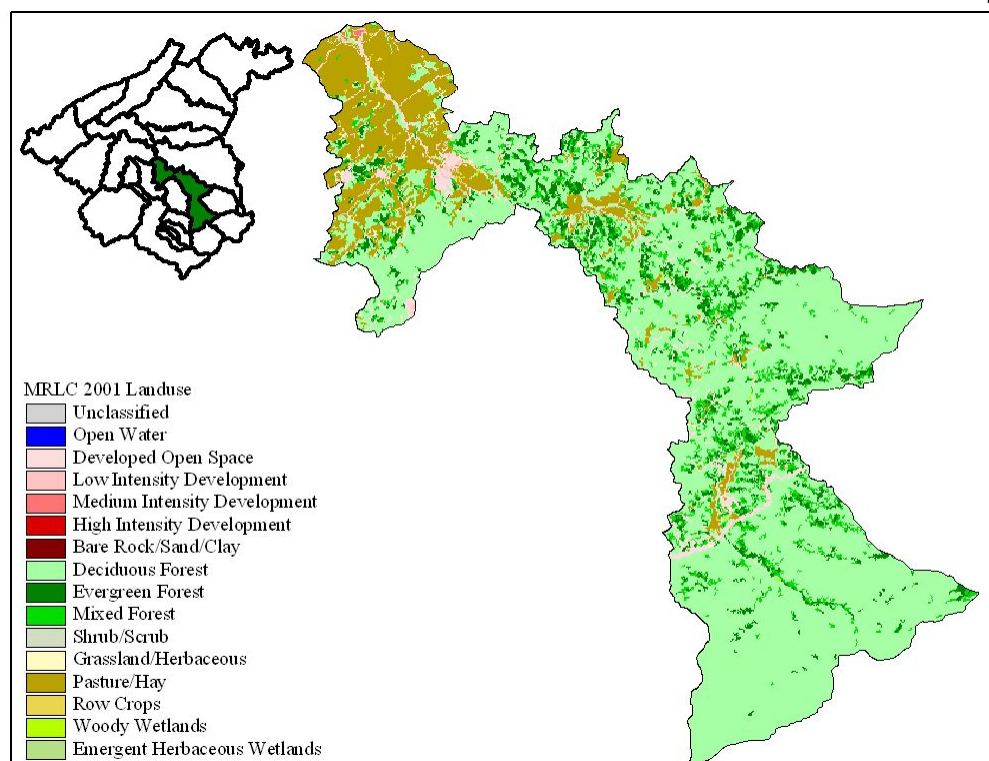


Figure 4-120. Illustration of Land Use Distribution in Subwatershed 060101070303.

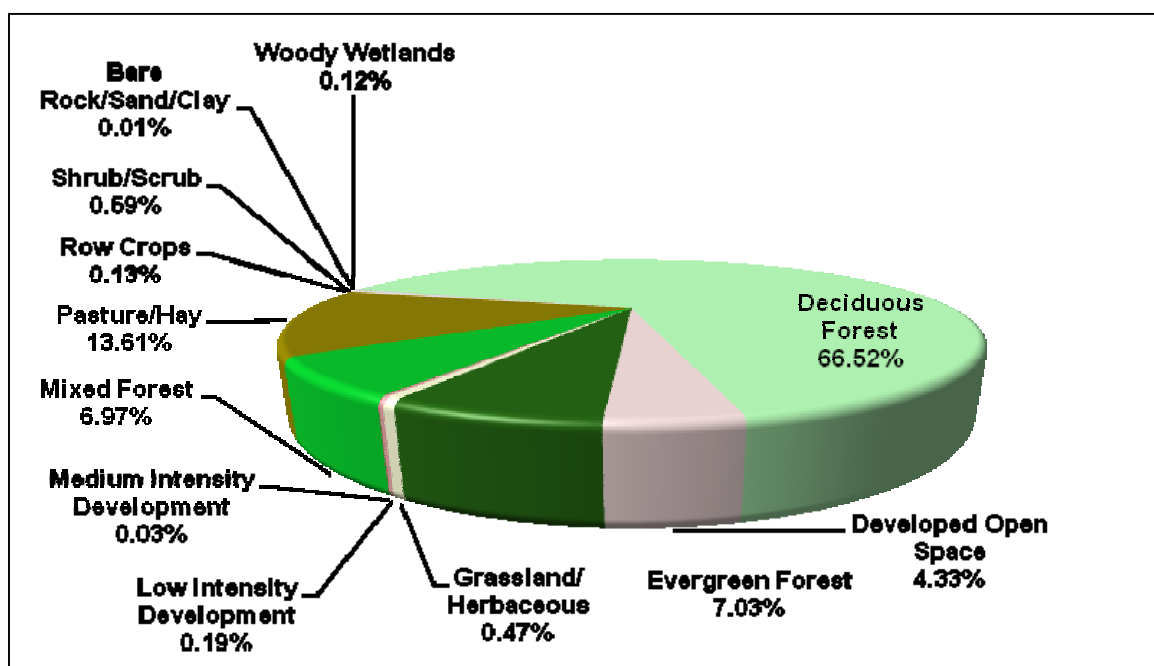


Figure 4-121. Land Use Distribution in Subwatershed 060101070303. More information is provided in Appendix IV.

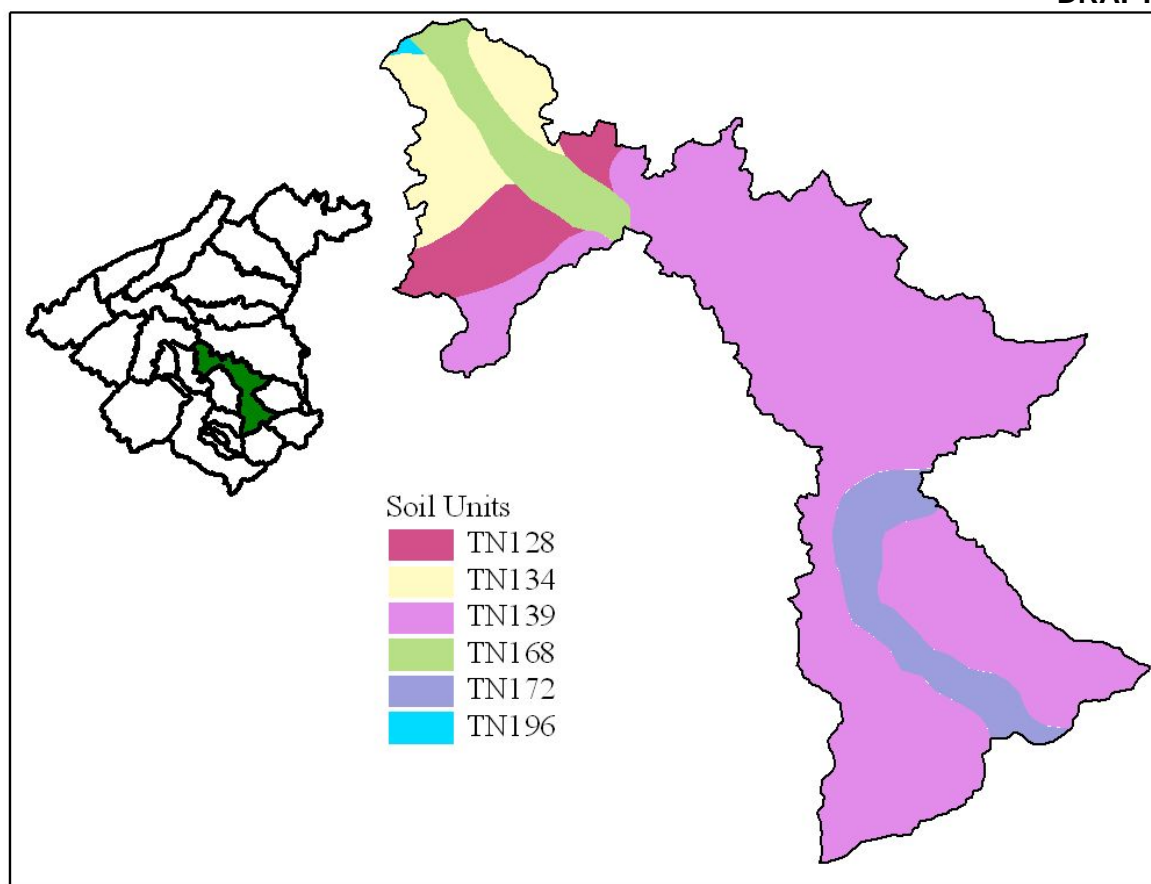


Figure 4-122. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070303.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34
TN172	0.00	B	3.87	5.13	Loam	0.26
TN196	13.00	C	1.61	5.39	Loam	0.31

Table 4-64. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070303. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sevier	51,043	62,774	71,170	6.24	3,185	3,917	4,441	39.4

Table 4-65. Population Estimates in Subwatershed 060101070303.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0
Pittman Center	Sevier	404	316	21	287	8
Sevierville	Sevier	7,178	3,321	2,632	686	3

Table 4-66. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070303.

4.2.L.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070303.

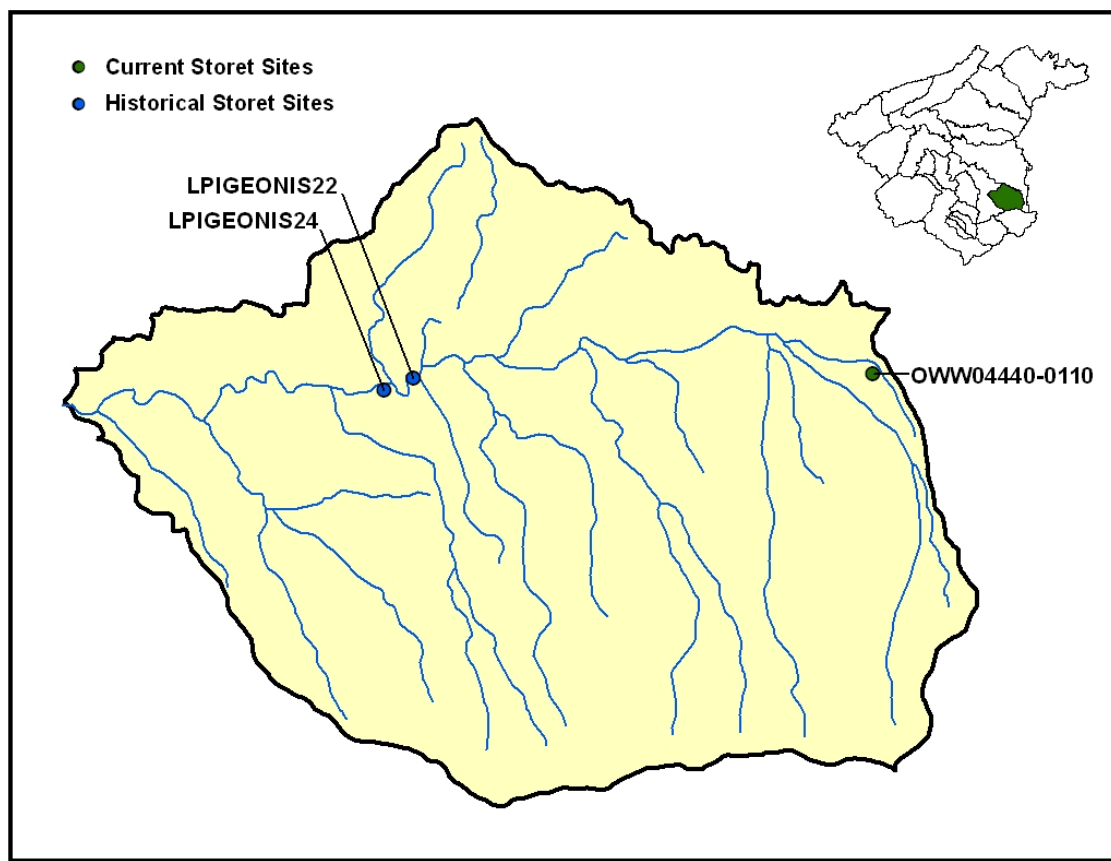


Figure 4-123. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070303. More information, including site names and locations, is provided in Appendix IV.

4.2.L.iii. Permitted Activities.

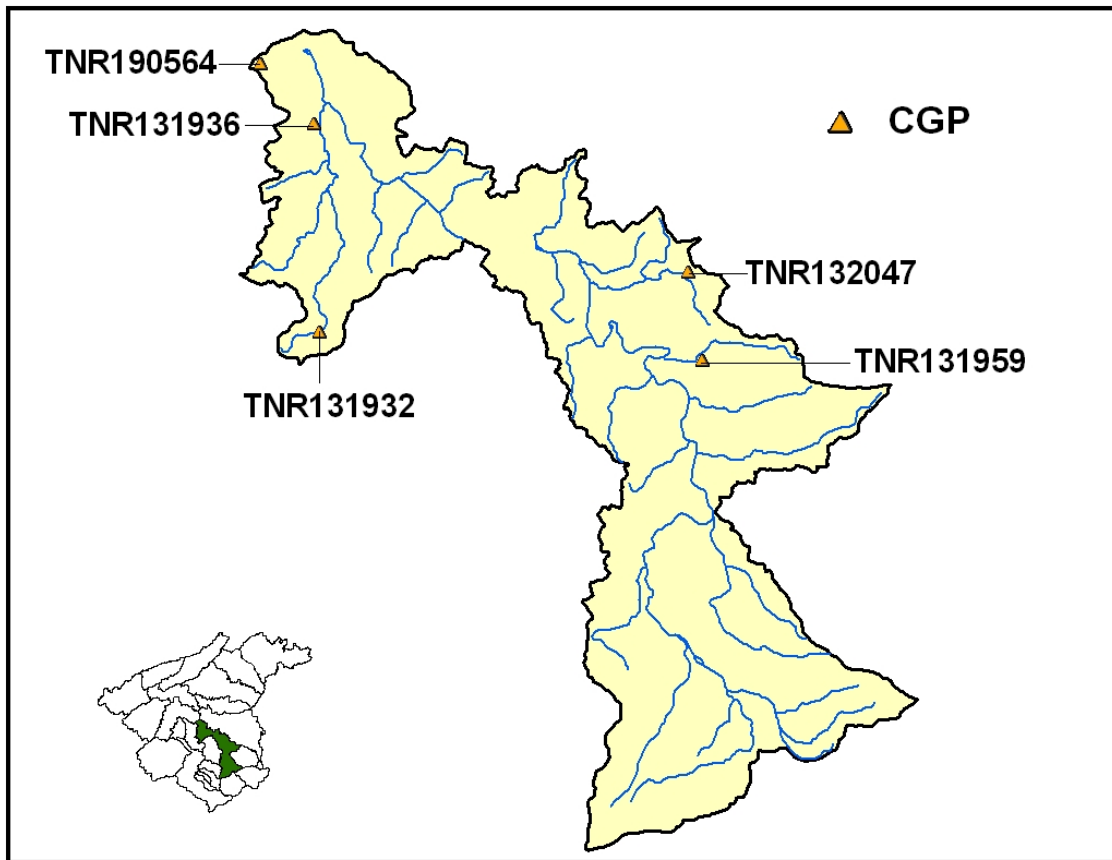


Figure 4-124. Location of Permits Issued in Subwatershed 060101070303. More information, including the names of facilities, is provided in Appendix IV.

4.2.L.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-67. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-68. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-69. Annual Estimated Total Soil Loss in Subwatershed 060101070303.

4.2.M. 060101070304 (Webb Creek)

4.2.M.i. General Description

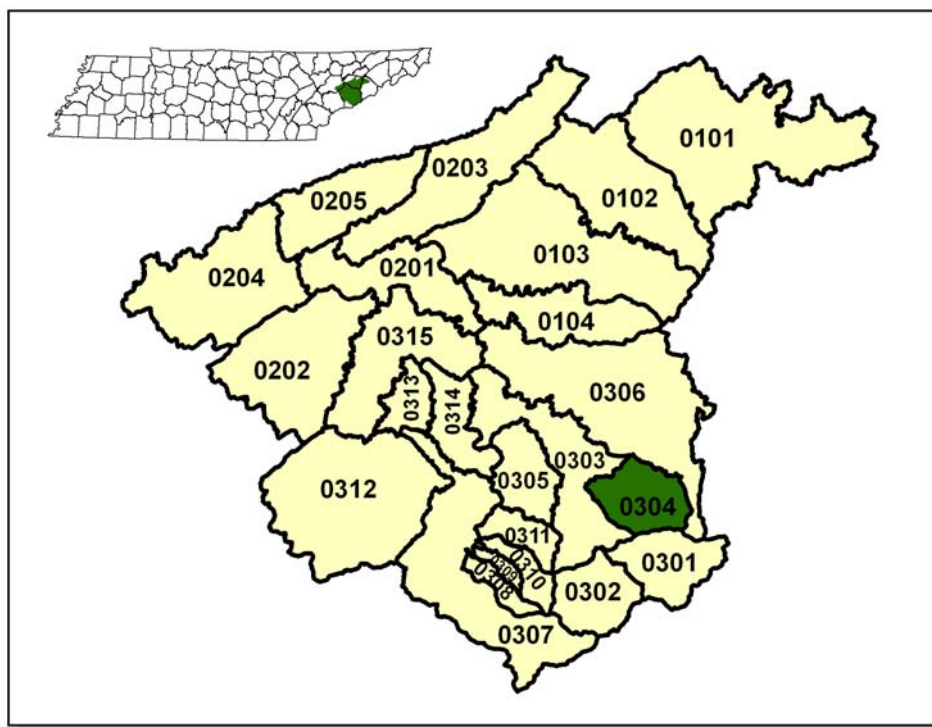


Figure 4-125. Location of Subwatershed 060101070304. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

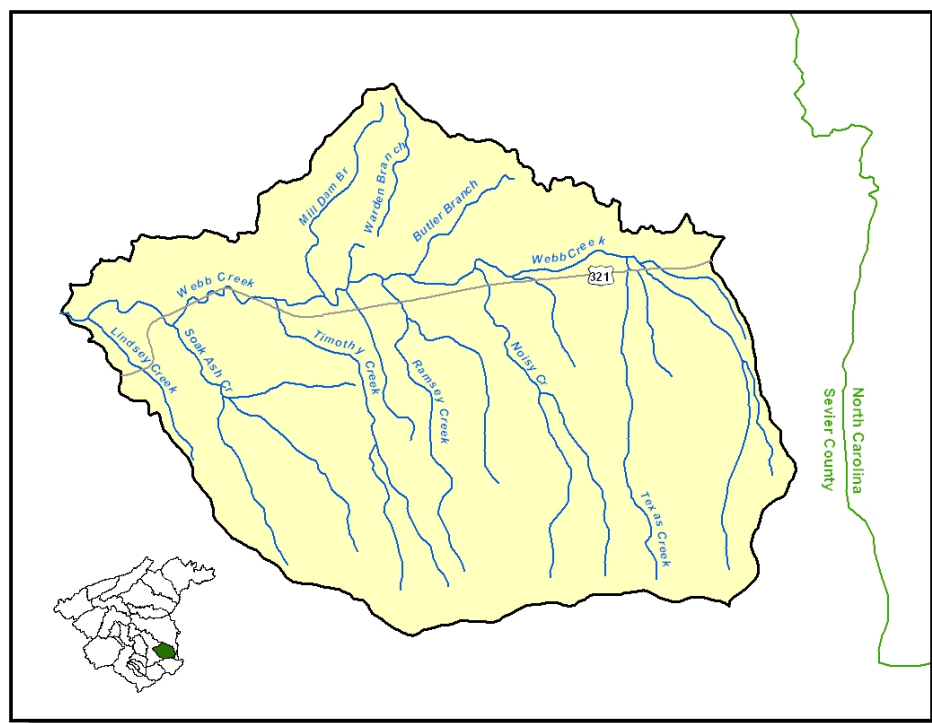


Figure 4-126. Locational Details of Subwatershed 060101070304.

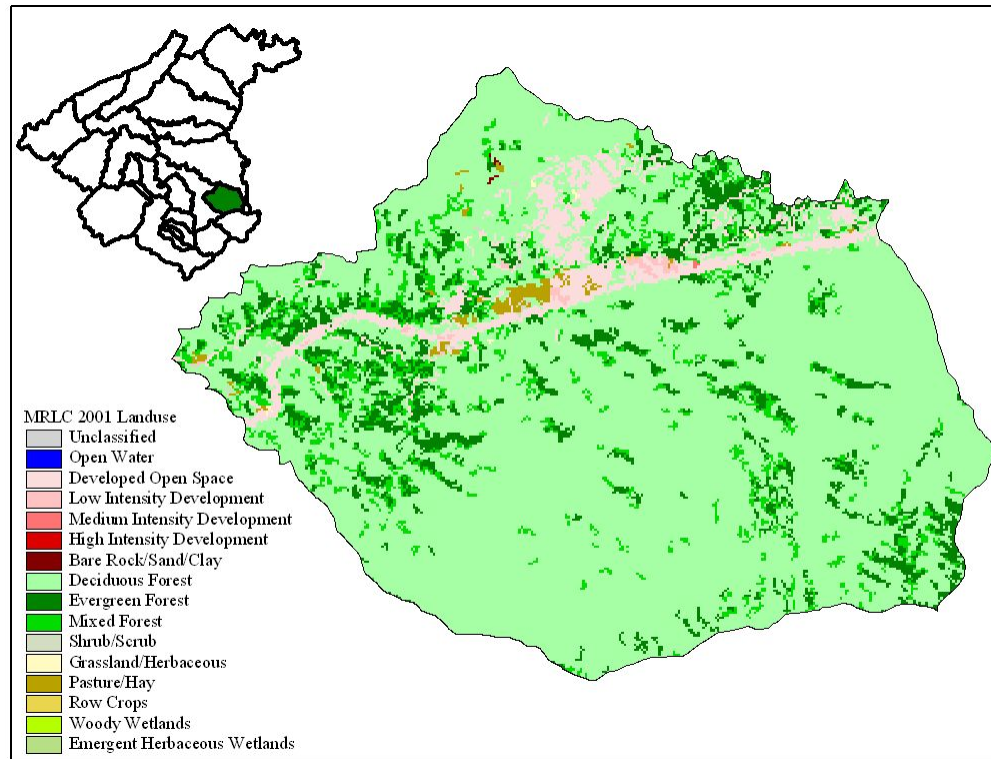


Figure 4-127. Illustration of Land Use Distribution in Subwatershed 060101070304.

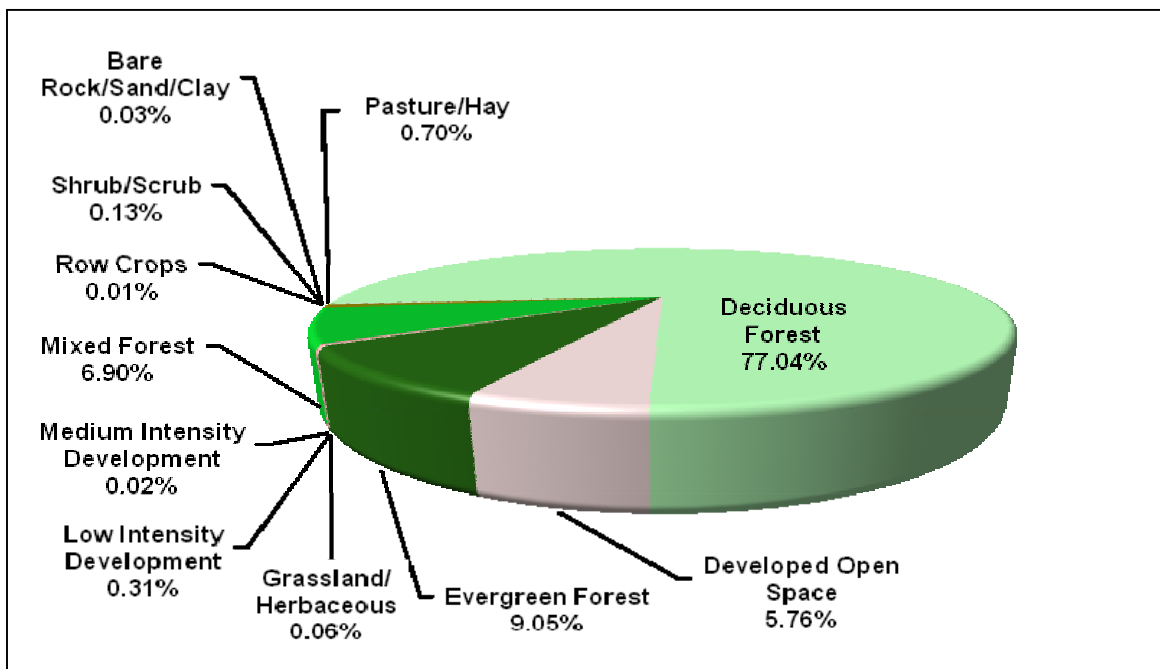


Figure 4-128. Land Use Distribution in Subwatershed 060101070304. More information is provided in Appendix IV.

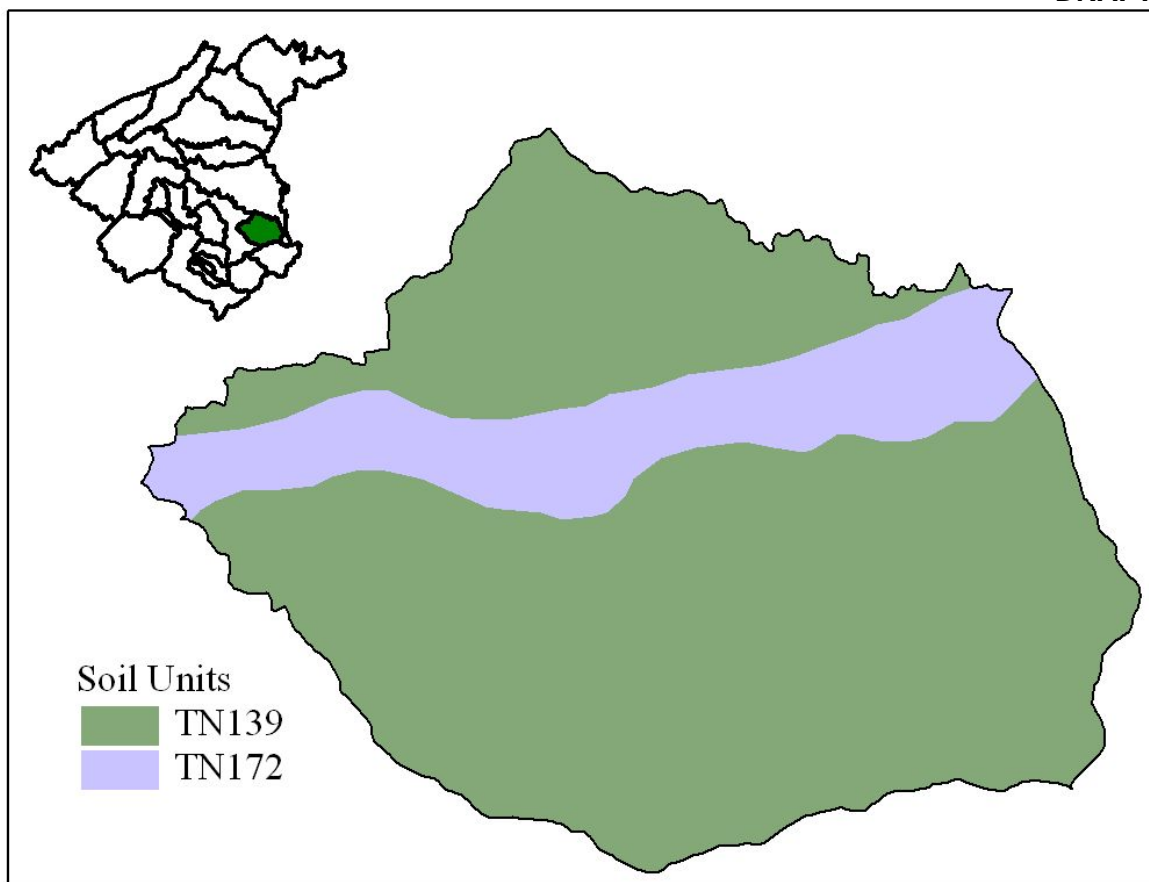


Figure 4-129. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070304.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN172	0.00	B	3.87	5.13	Loam	0.26
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-70. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070304. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	2.95	1,503	1,849	2,096	39.50

Table 4-71. Population Estimates in Subwatershed 060101070304.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Pittman Center	Sevier	404	316	21	287	8

Table 4-72. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070304.

4.2.M.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070304.

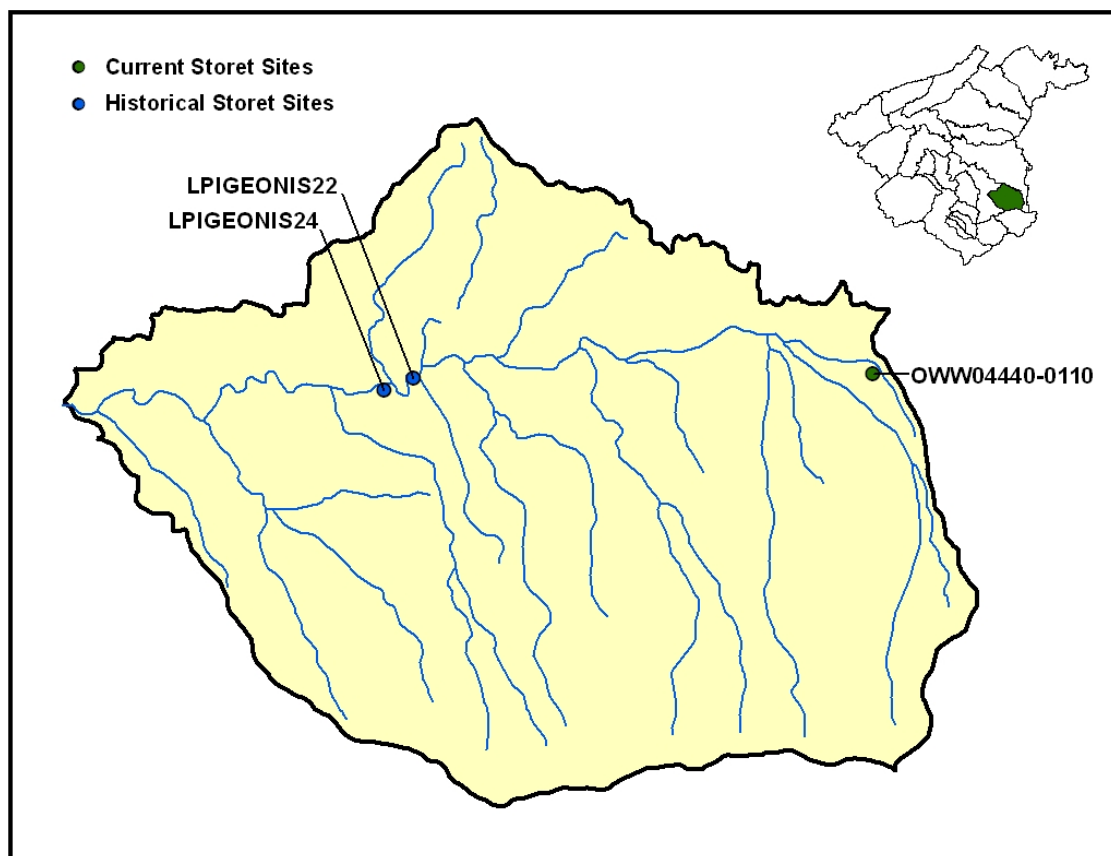


Figure 4-130. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070304. More information, including site names and locations, is provided in Appendix IV.

4.2.M.iii. Permitted Activities.

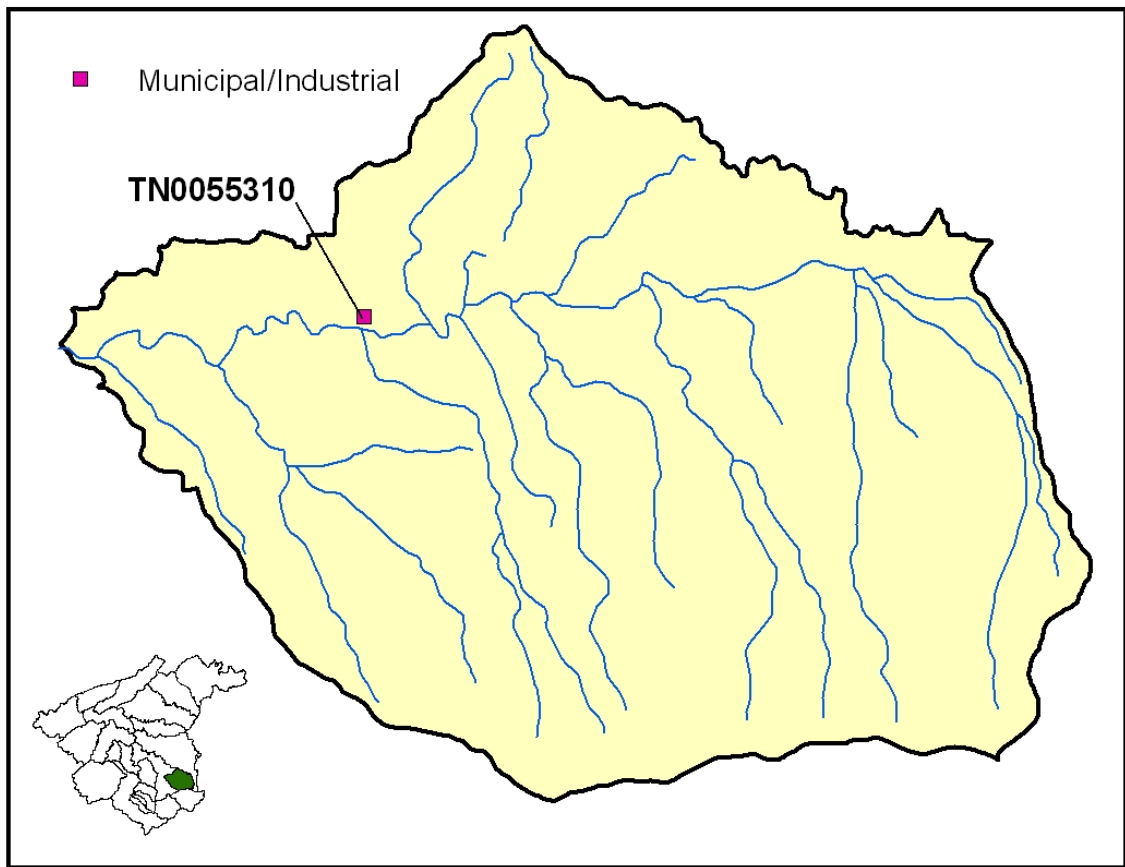


Figure 4-131. Location of Permits Issued in Subwatershed 060101070304. More information, including the names of facilities, is provided in Appendix IV.

4.2.M.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-73. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-74. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-75. Annual Estimated Total Soil Loss in Subwatershed 060101070304.

4.2.N. 060101070305 (Bird Creek)

4.2.N.i. General Description

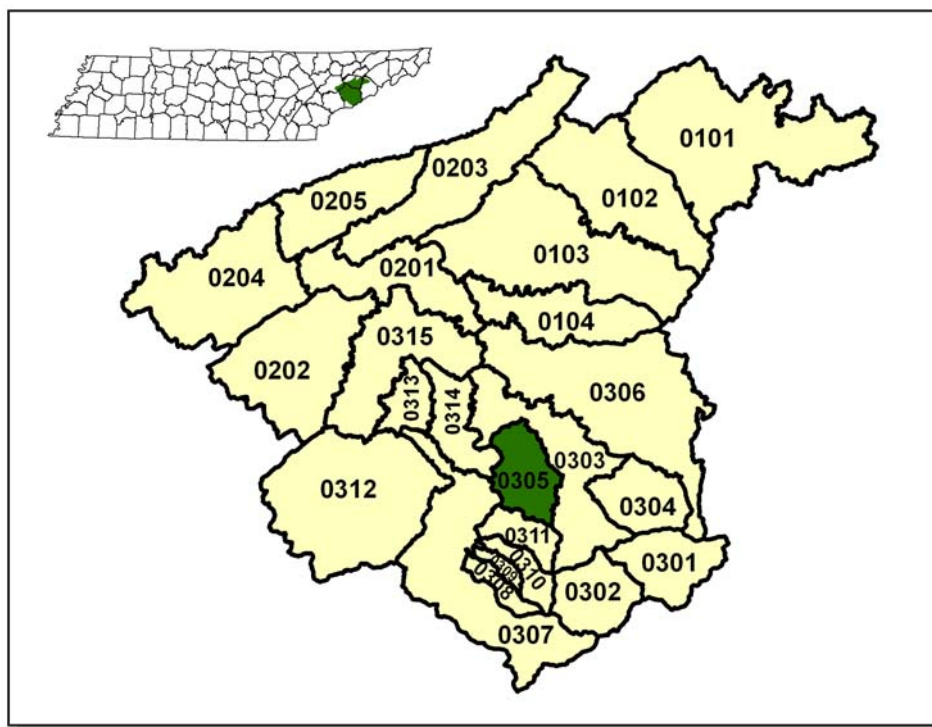


Figure 4-132. Location of Subwatershed 060101070305. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

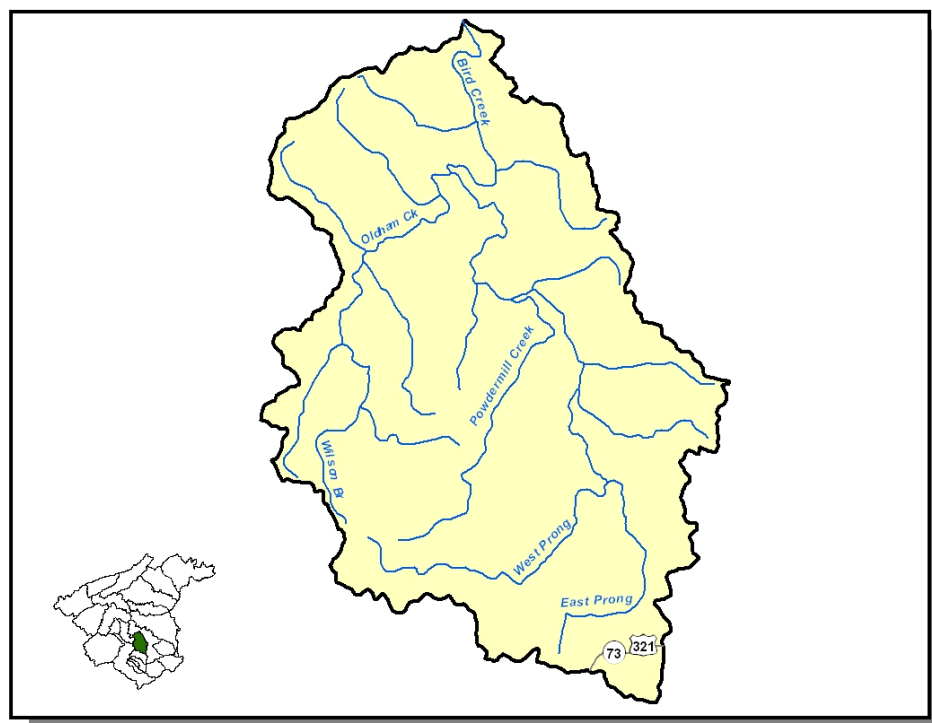


Figure 4-133. Locational Details of Subwatershed 060101070305.

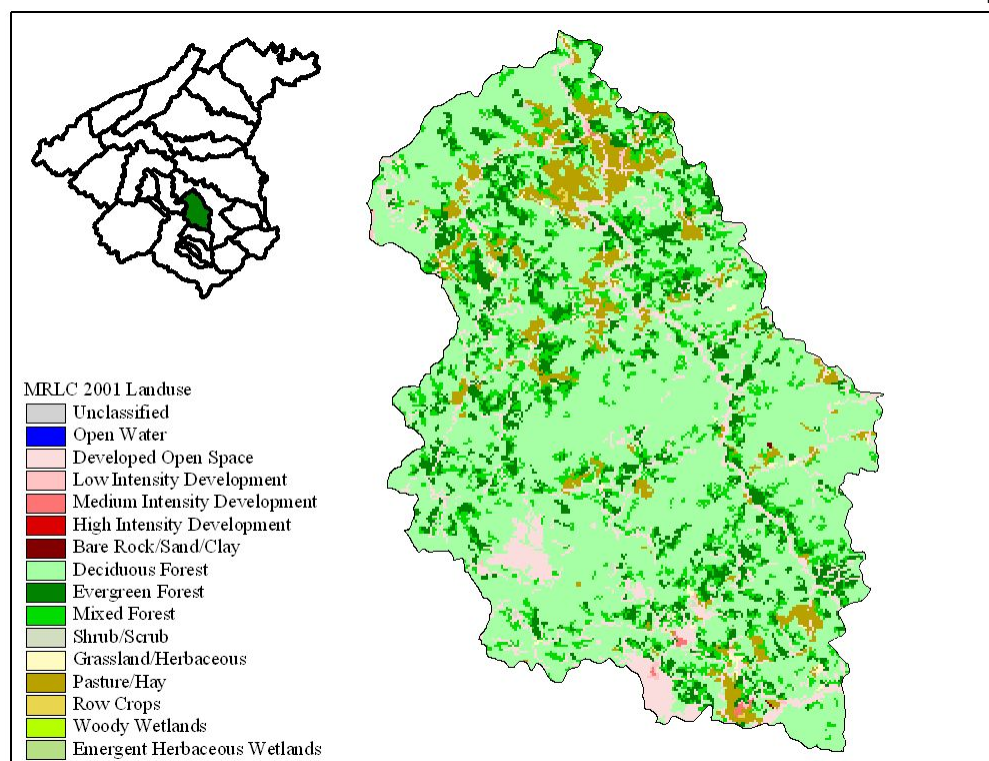


Figure 4-134. Illustration of Land Use Distribution in Subwatershed 060101070305.

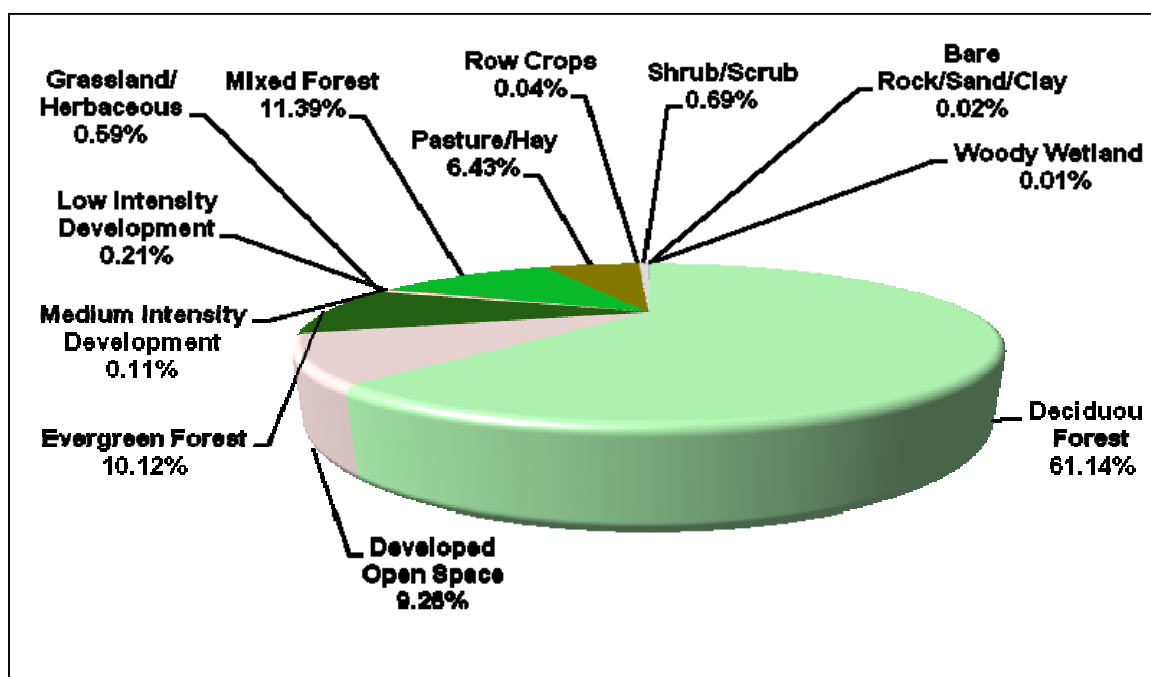


Figure 4-135. Land Use Distribution in Subwatershed 060101070305. More information is provided in Appendix IV.

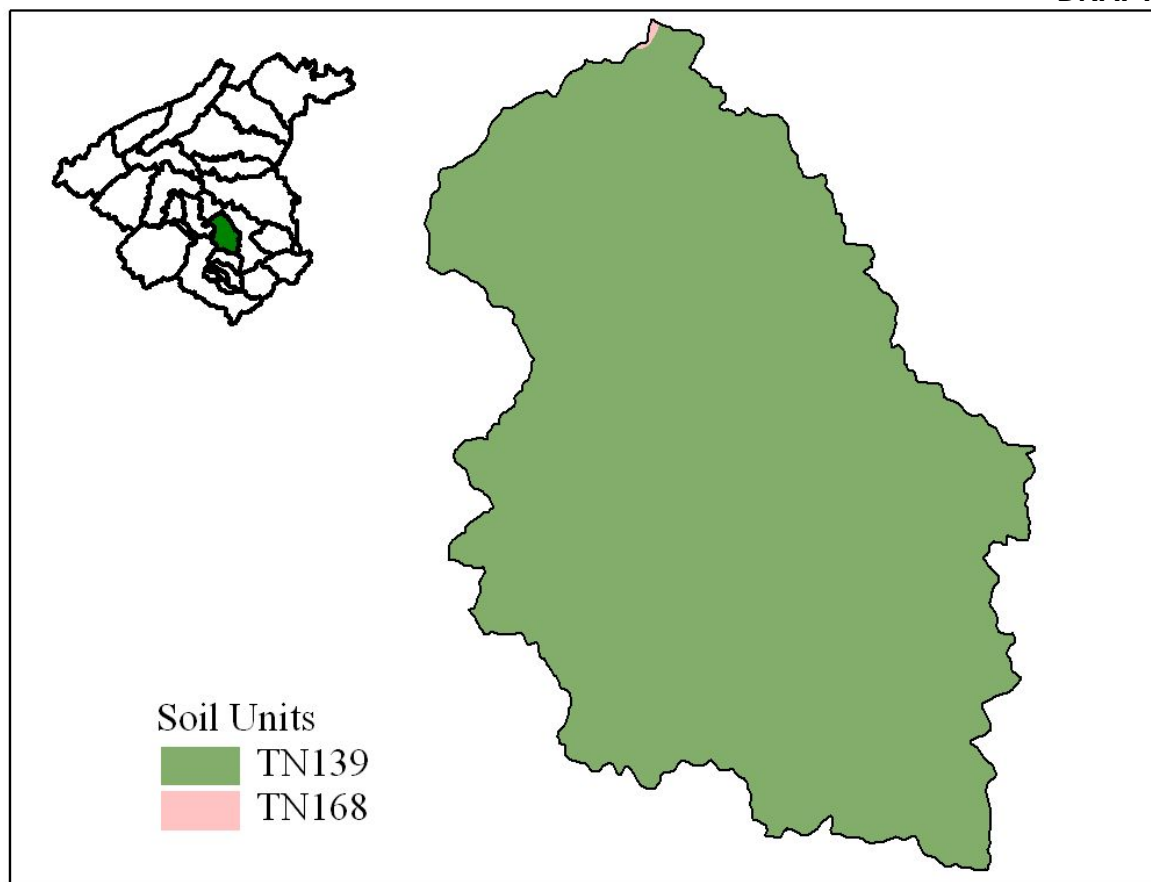


Figure 4-136. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070305.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34

Table 4-76. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070305. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sevier	51,043	62,774	71,170	2.69	1,372	1,688	1,914	39.50

Table 4-77. Population Estimates in Subwatershed 060101070305.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0
Pittman Center	Sevier	404	316	21	287	8
Total		3,759	3,247	1963	1276	8

Table 4-78. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070305.

4.2.N.ii. USGS Gaging Stations and STORET Sites

There are no continuous record gaging stations located in subwatershed 060101070305.

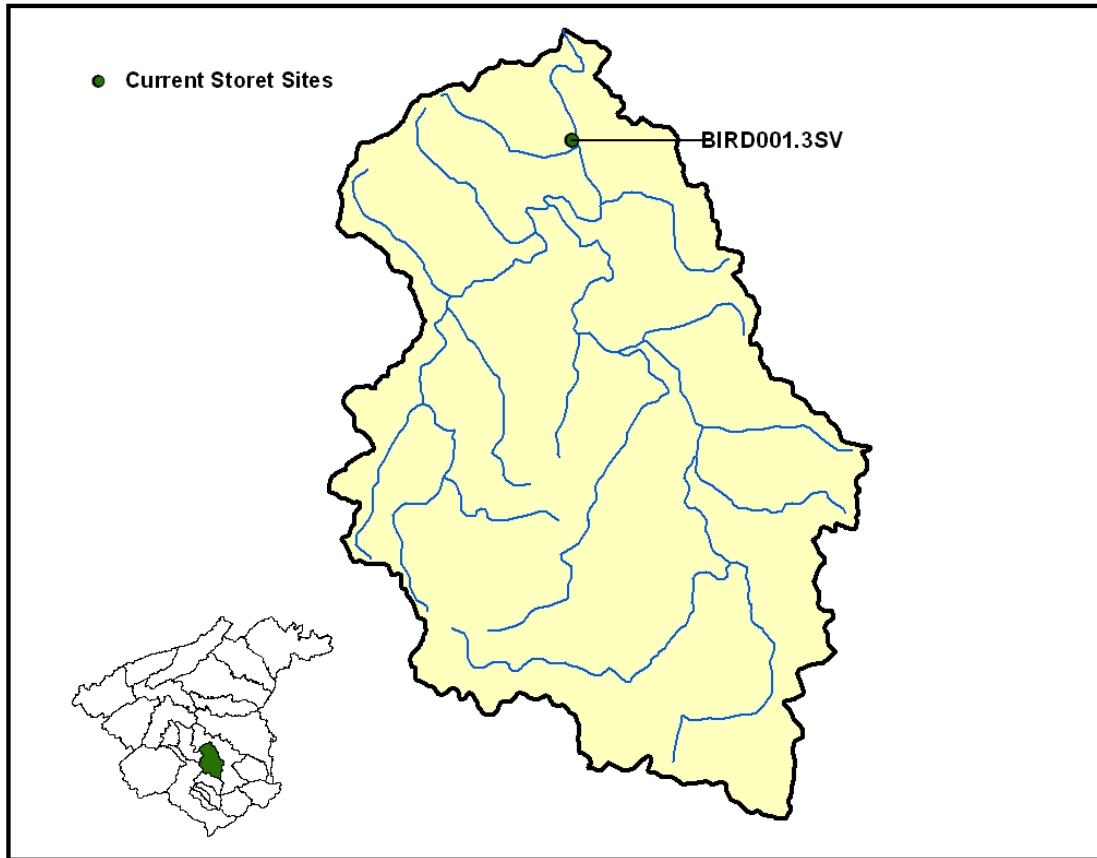


Figure 4-137. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070305. More information, including site names and locations, is provided in Appendix IV.

4.2.N.iii. Permitted Activities.

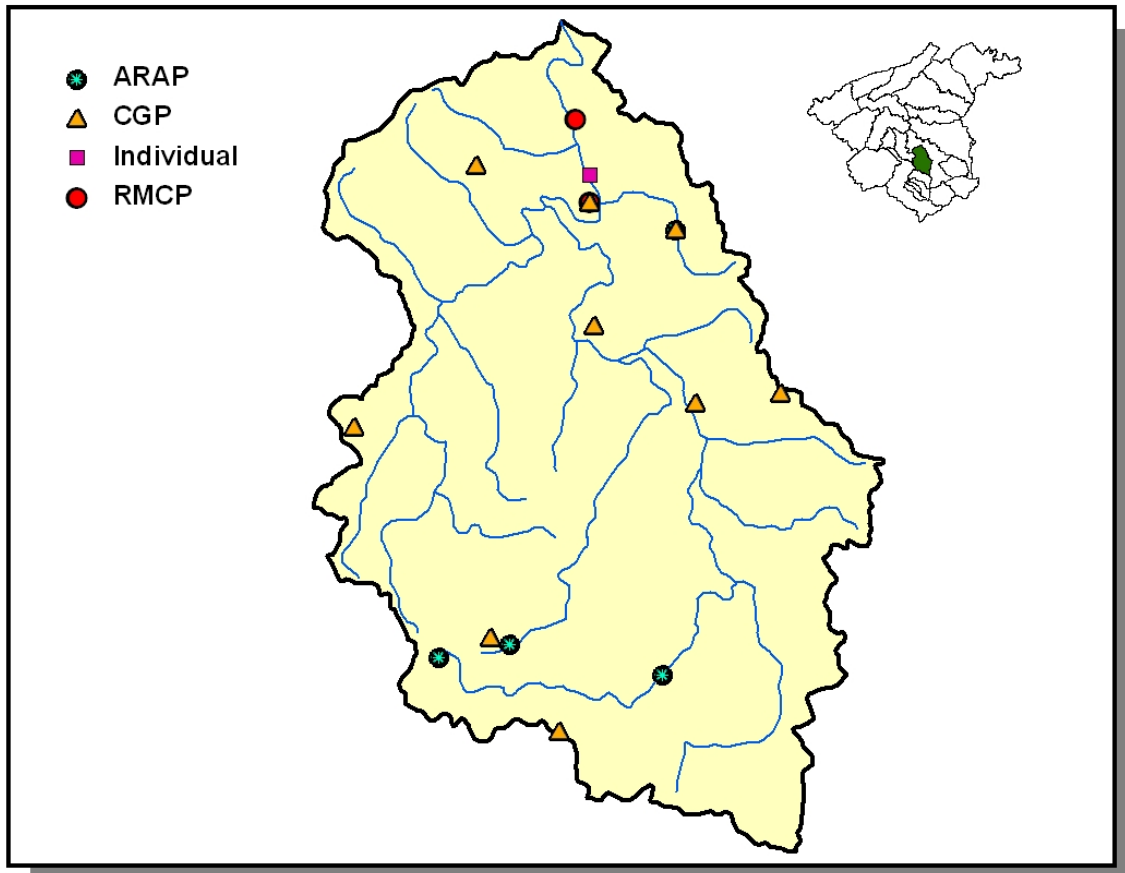


Figure 4-138. Location of Permits Issued in Subwatershed 060101070305. More information, including the names of facilities, is provided in Appendix IV.

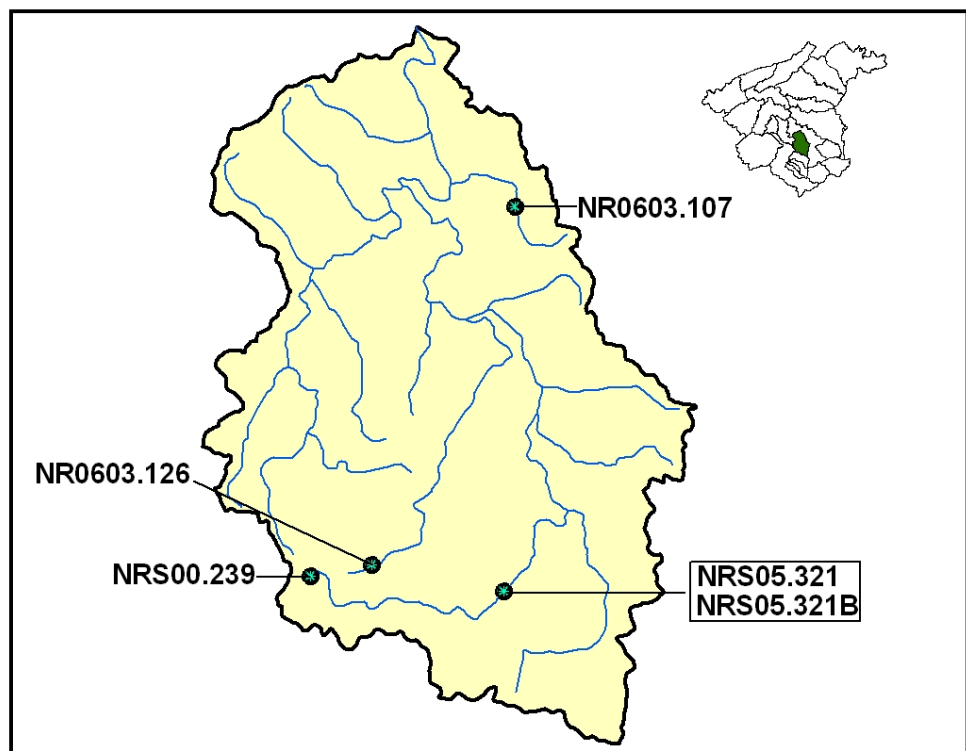


Figure 4-139. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070305. More information is provided in Appendix IV.

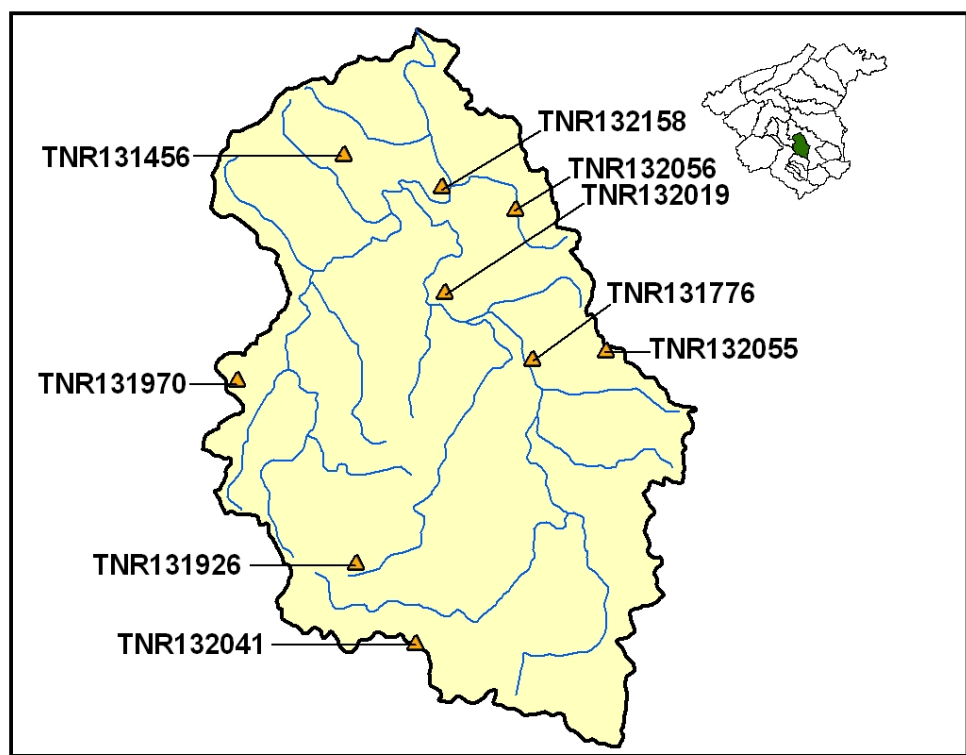


Figure 4-140. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070305. More information is provided in Appendix IV.



Figure 4-141. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070305. More information, including the name of the facility is provided in Appendix IV.



Figure 4-142. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070305. More information, including the names of facilities, is provided in Appendix IV.

4.2.N.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-79. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-80. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-81. Annual Estimated Total Soil Loss in Subwatershed 060101070305.

4.2.O. 060101070306 (East Fork Dunn Creek)

4.2.O.i. General Description

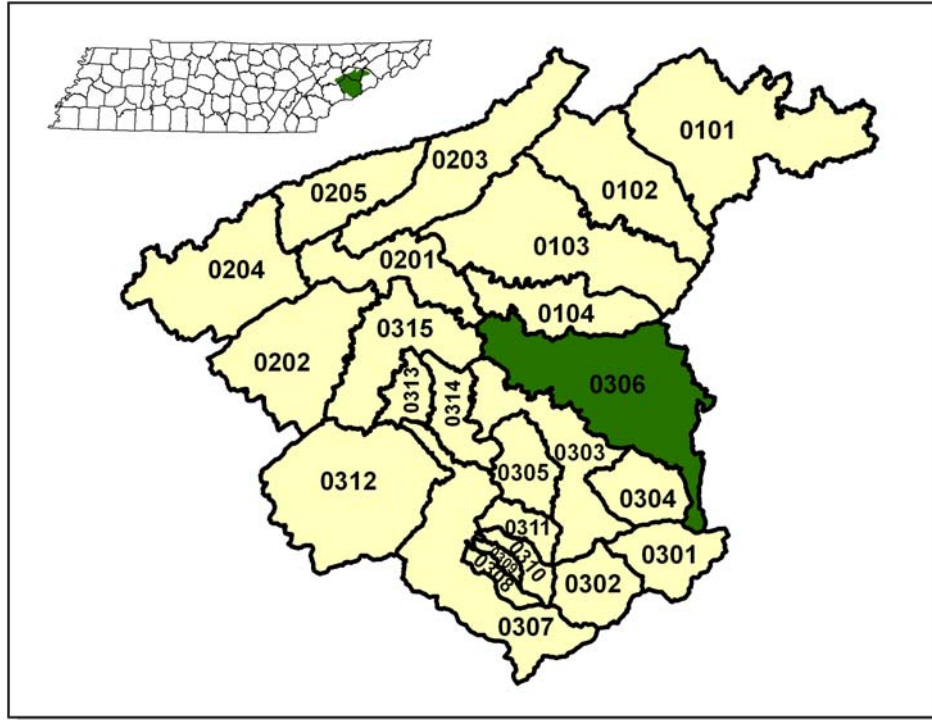


Figure 4-143. Location of Subwatershed 060101070306. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

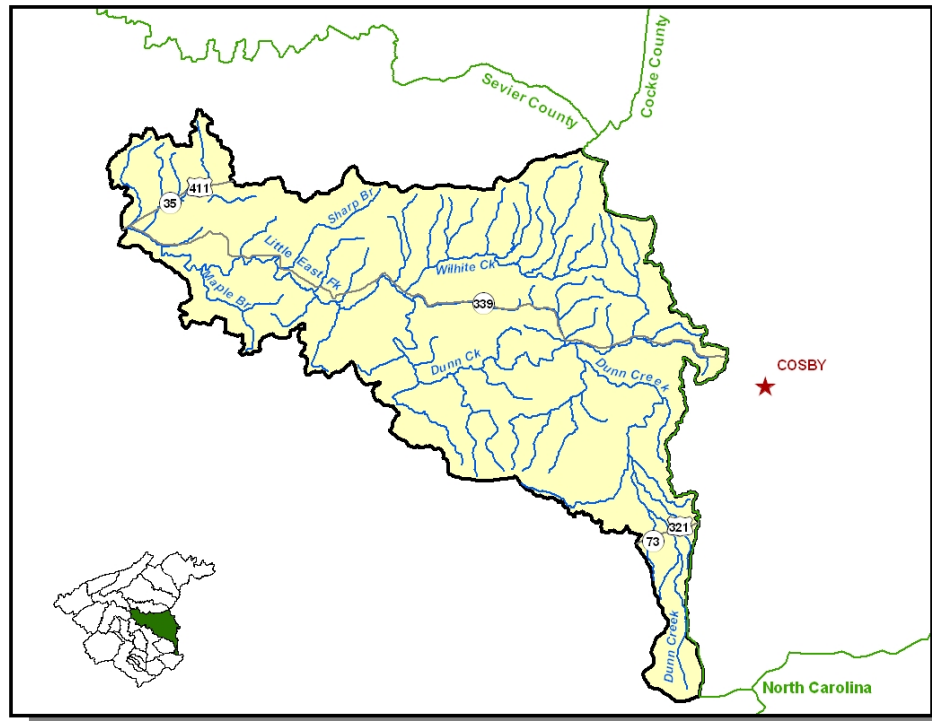


Figure 4-144. Locational Details of Subwatershed 060101070306.

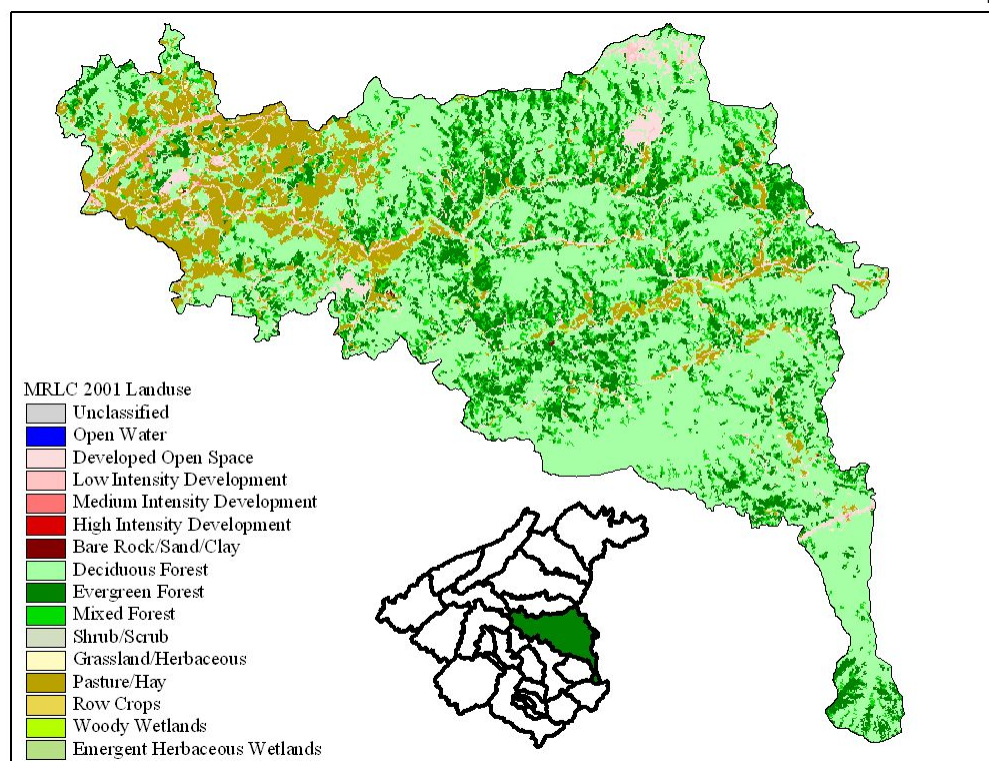


Figure 4-145. Illustration of Land Use Distribution in Subwatershed 060101070306.

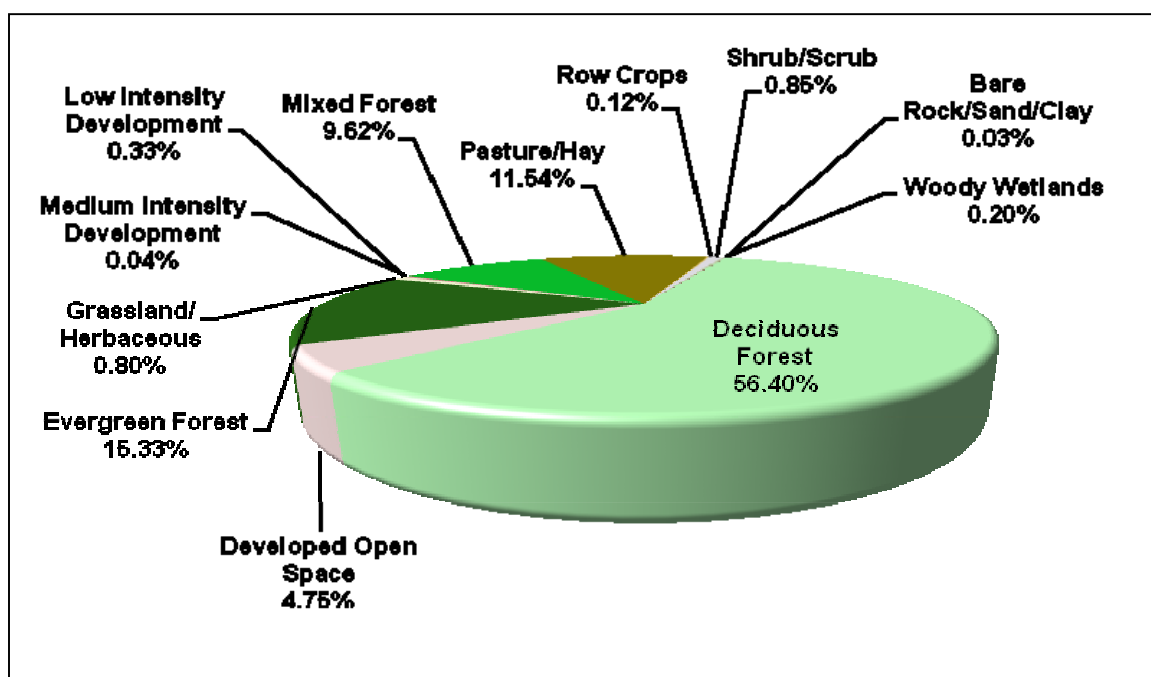


Figure 4-146. Land Use Distribution in Subwatershed 060101070306. More information is provided in Appendix IV.

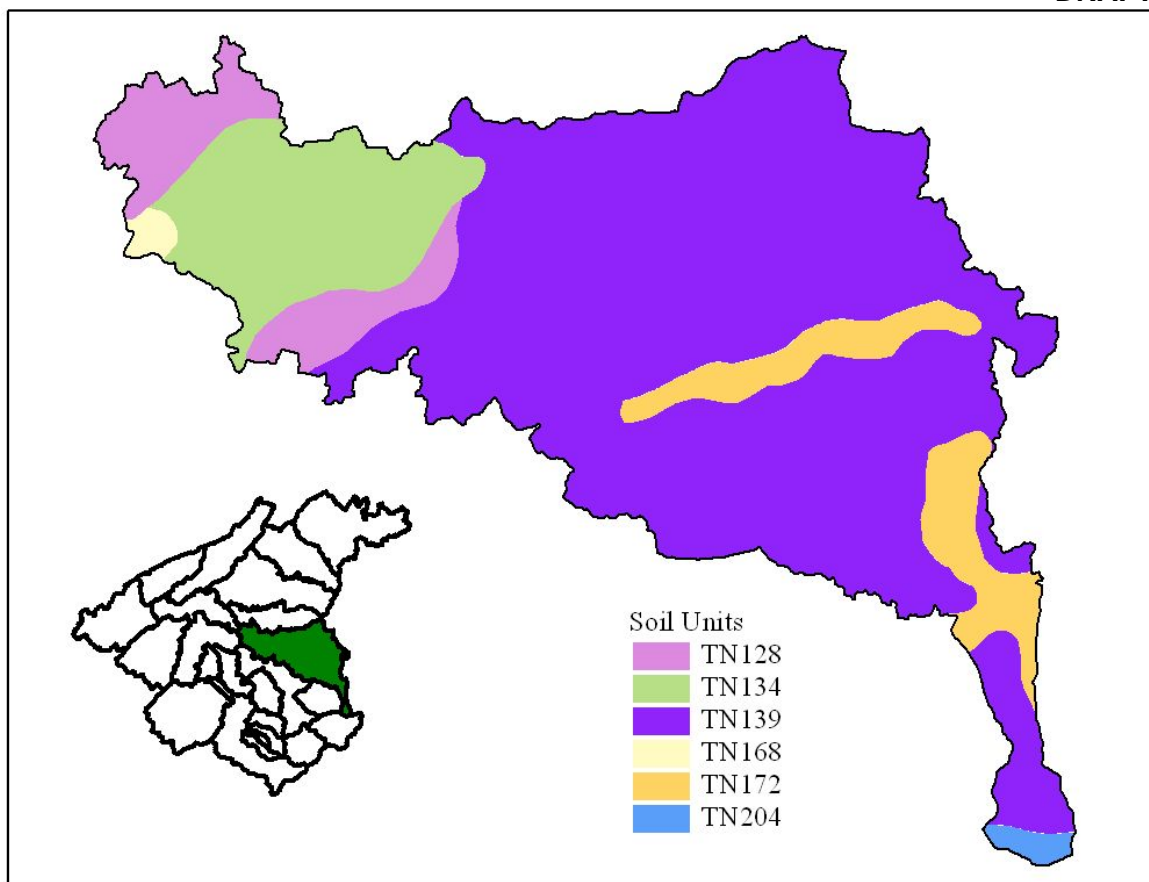


Figure 4-147. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070306.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34
TN172	0.00	B	3.87	5.13	Loam	0.26
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-82. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070306. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Cocke	29,141	31,657	33,565	0.08	23	25	27	17.4
Sevier	51,043	62,774	71,170	11.42	5,829	7,169	8,128	39.4
Totals	80,184	94,431	104,735		5,852	7,194	8,155	39.4

Table 4-83. Population Estimates in Subwatershed 060101070306.

4.2.O.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations in subwatershed 060101070306.

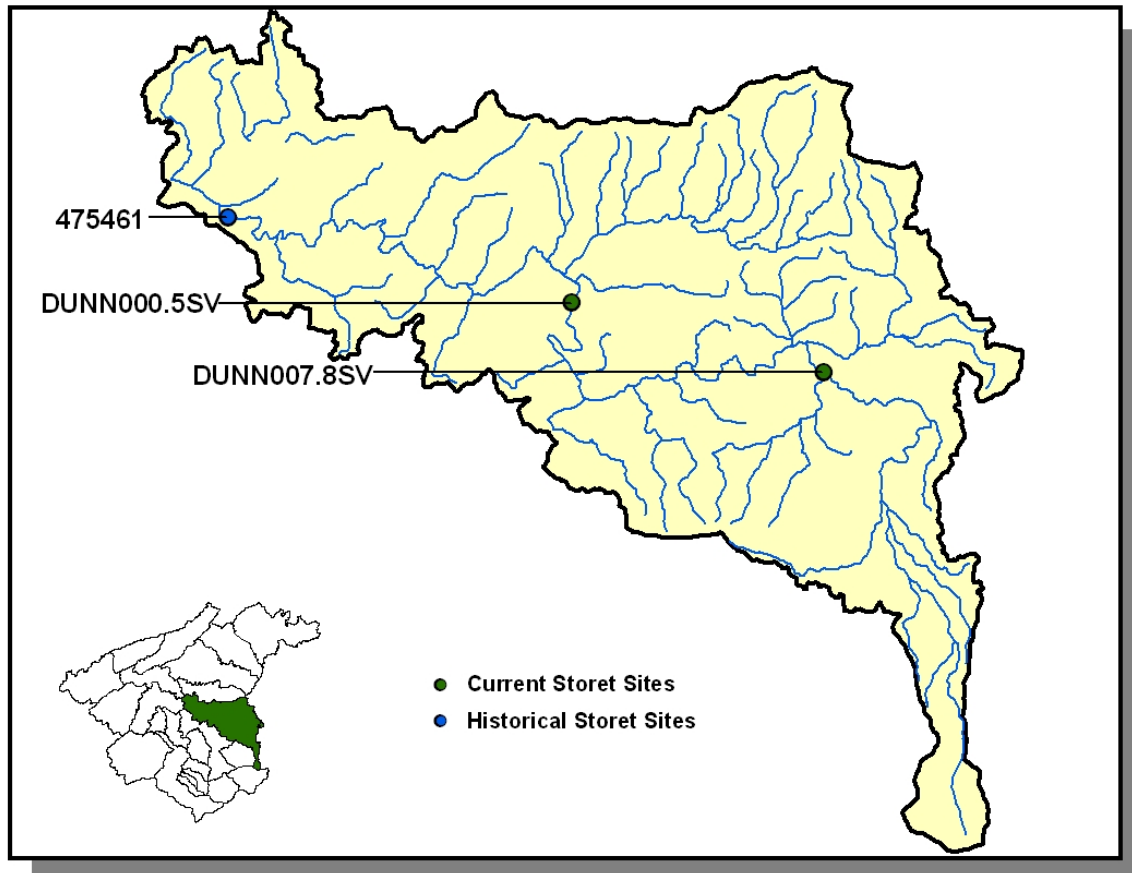


Figure 4-148. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070306. More information, including site names and locations, is provided in Appendix IV.

4.2.O.iii. Permitted Activities.

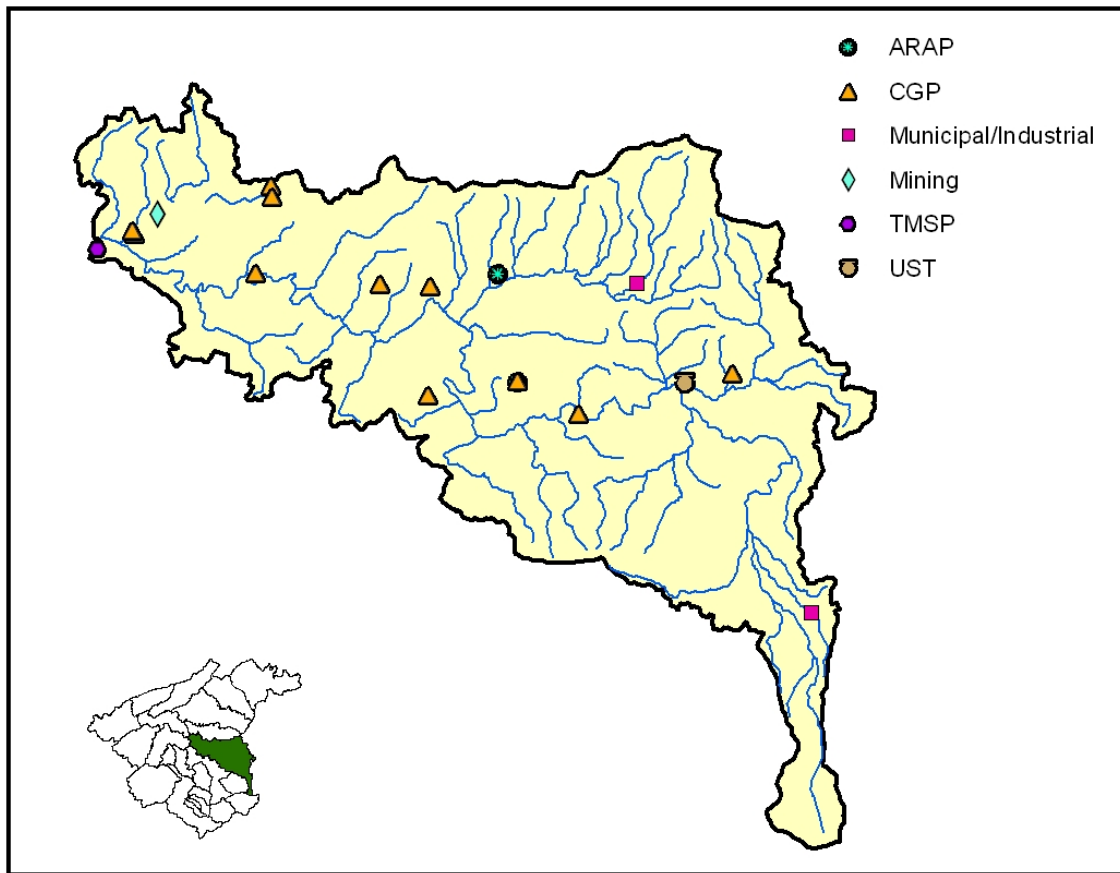


Figure 4-149. Location of Permits Issued in Subwatershed 060101070306. More information, including the names of facilities, is provided in Appendix IV.

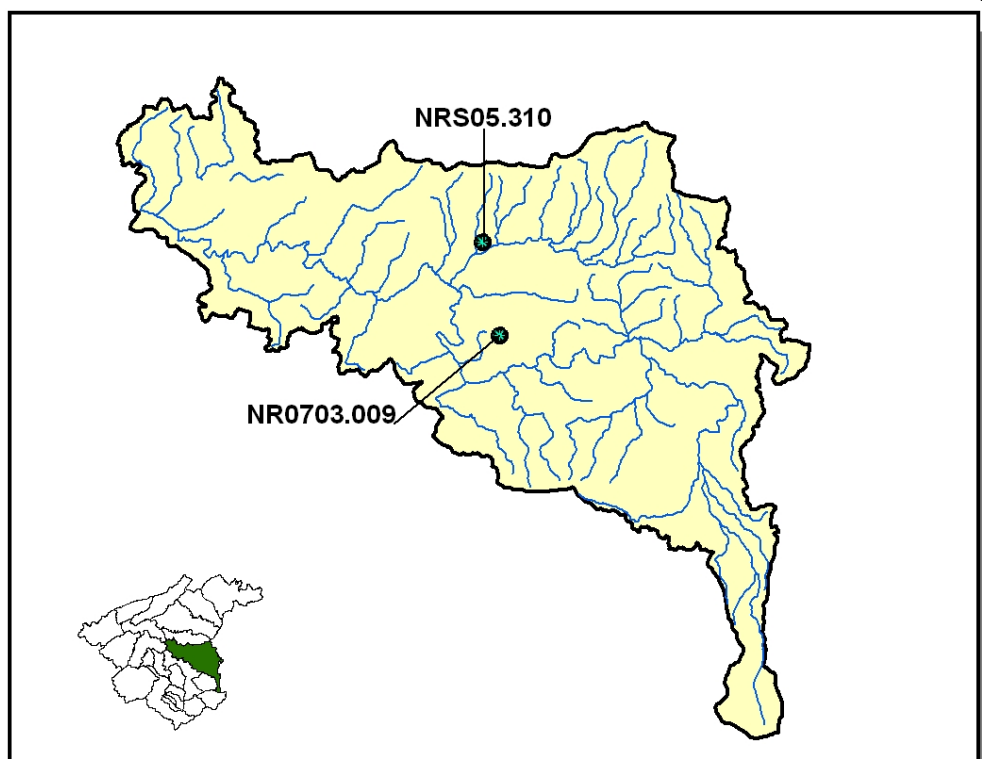


Figure 4-150. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070306. More information is provided in Appendix IV.

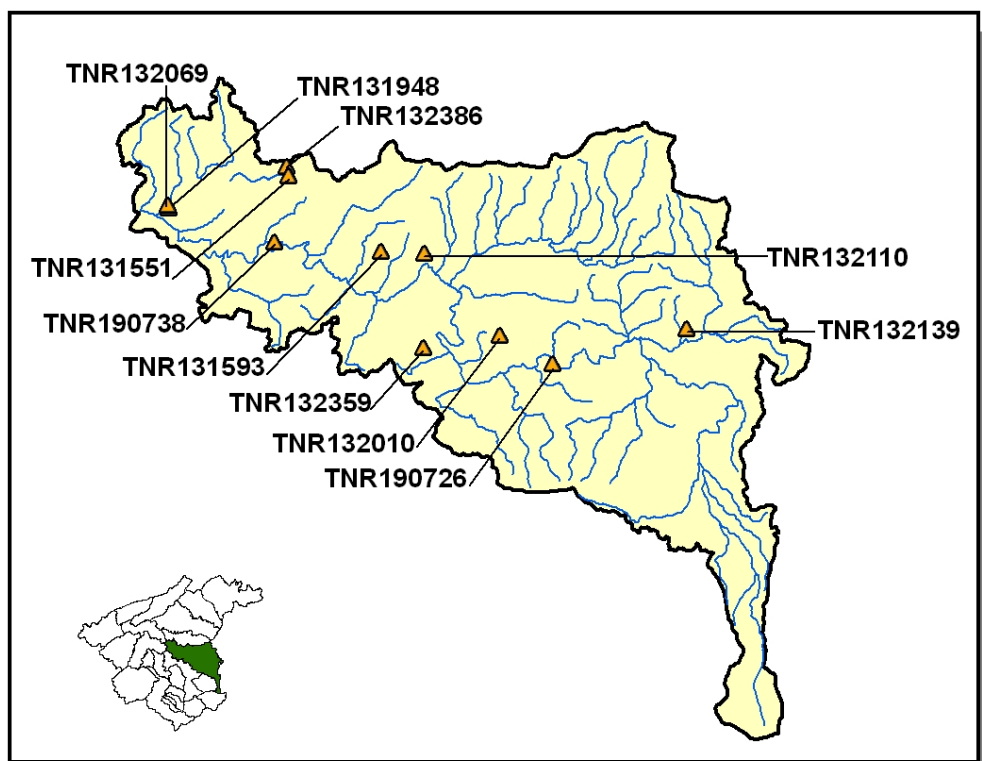


Figure 4-151. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070306. More information is provided in Appendix IV.

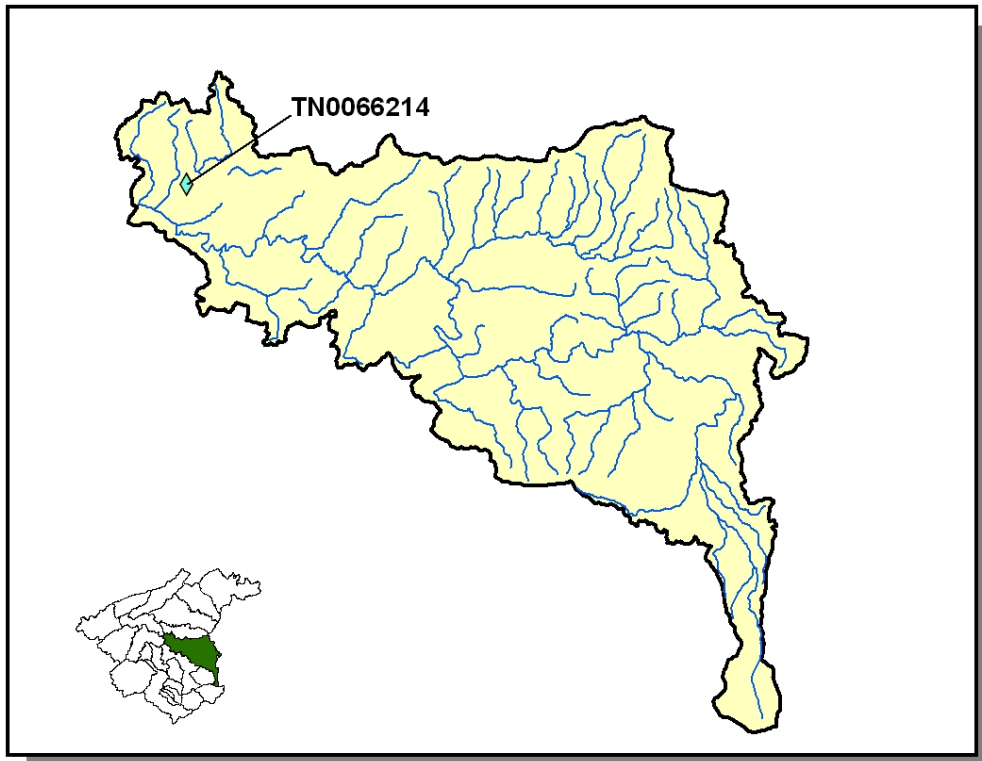


Figure 4-152. Location of permitted MINING facilities in Subwatershed 060101070306. More information is provided in Appendix IV.

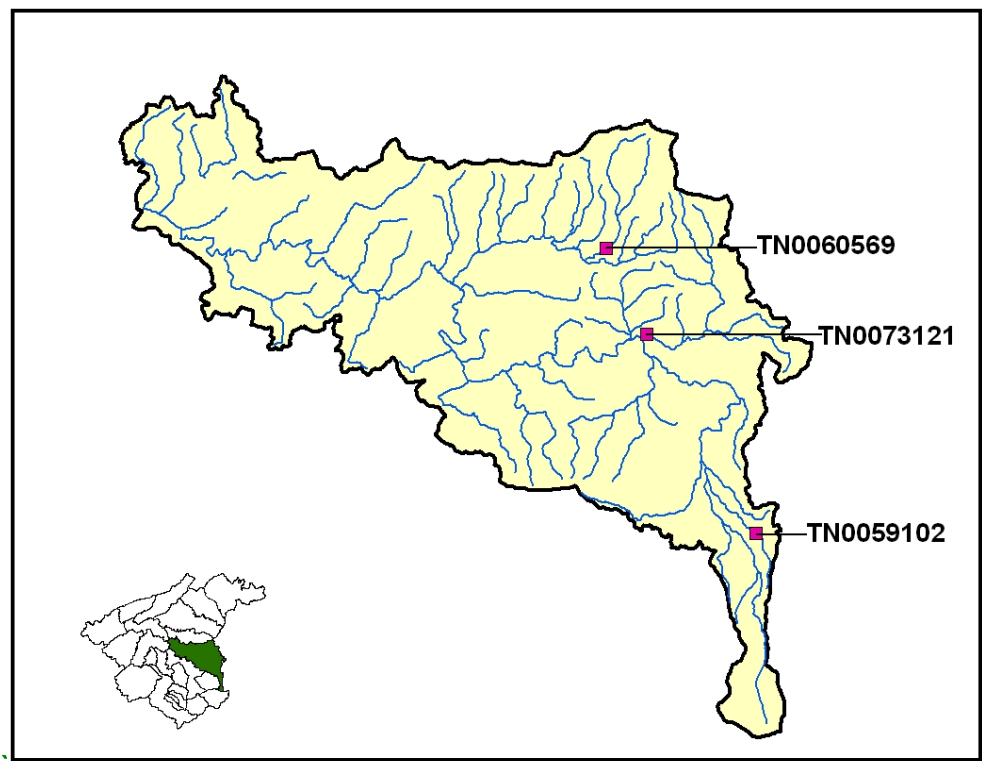


Figure 4-153. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070306. More information, including the name of the facility is provided in Appendix IV.

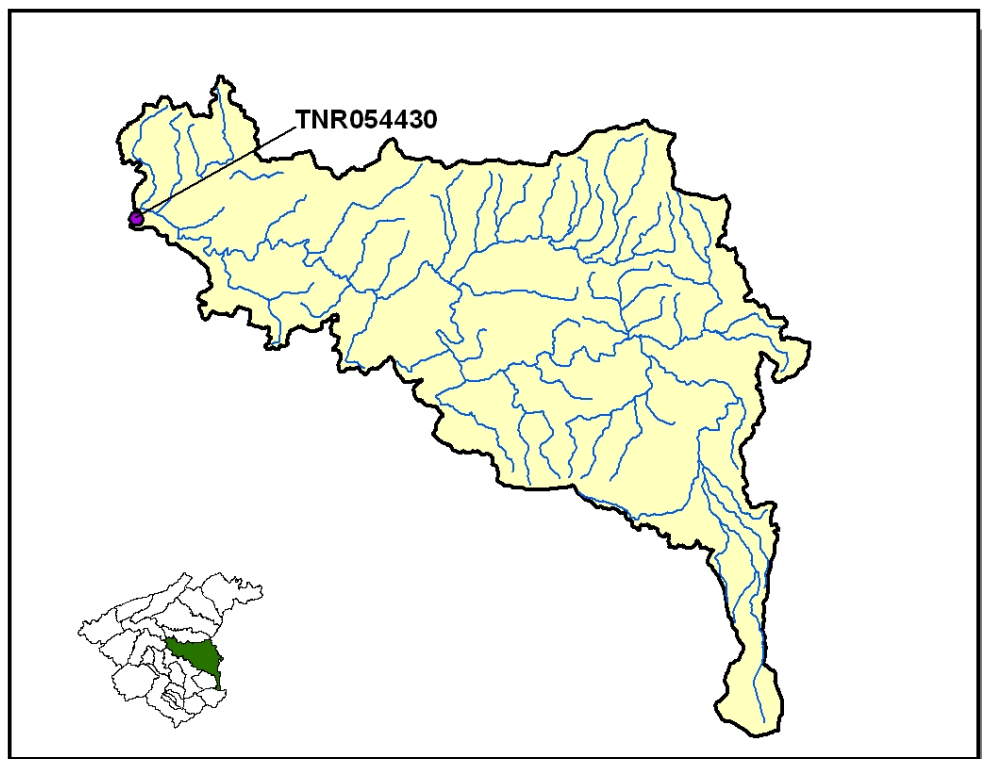


Figure 4-154. Location of TMR (TENNESSEE MULTI SECTOR PERMIT) Sites in Subwatershed 060101070306. More information is provided in Appendix IV.

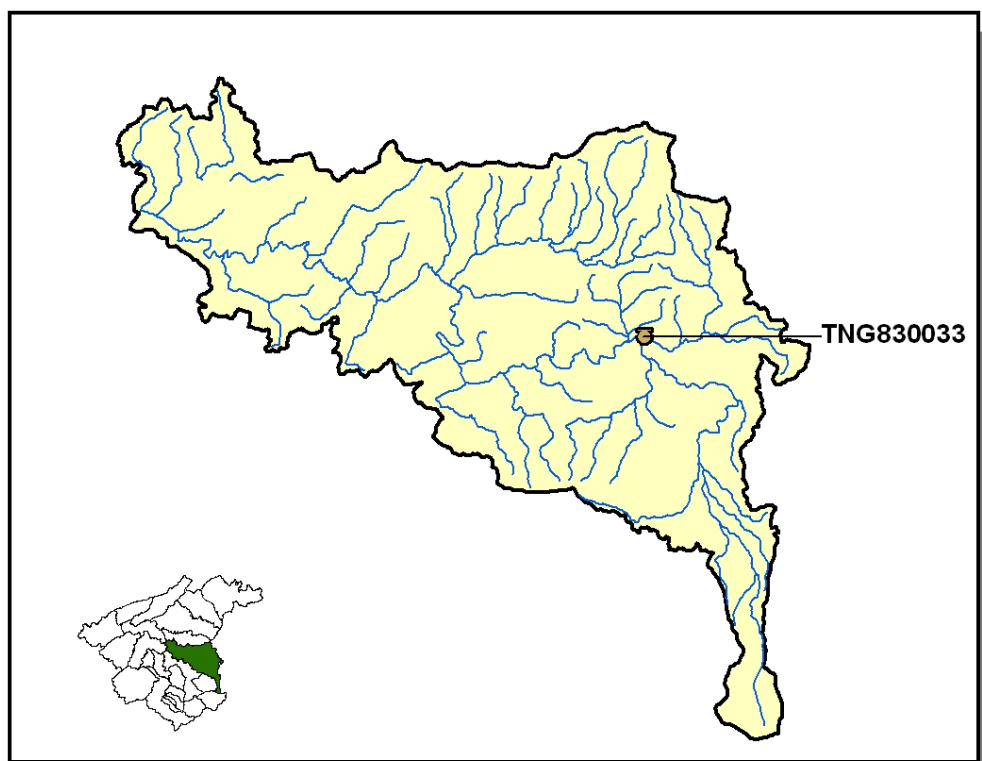


Figure 4-155. Location of Active UST Sites in Subwatershed 060101070306. More information is provided in Appendix IV.

4.2.O.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cocke	8,169	16,971	1,224	361	269	90
Sevier	9,816	19,013	172	26	394	234

Table 4-84. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cocke	182.0	163.4	3.7	17.4
Sevier	254.5	127.4	0.3	0.9

Table 4-85. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.51
Corn (Row Crops)	5.14
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-86. Annual Estimated Total Soil Loss in Subwatershed 060101070306.

4.2.P. 060101070307 (West Prong Little Pigeon River)

4.2.P.i. General Description

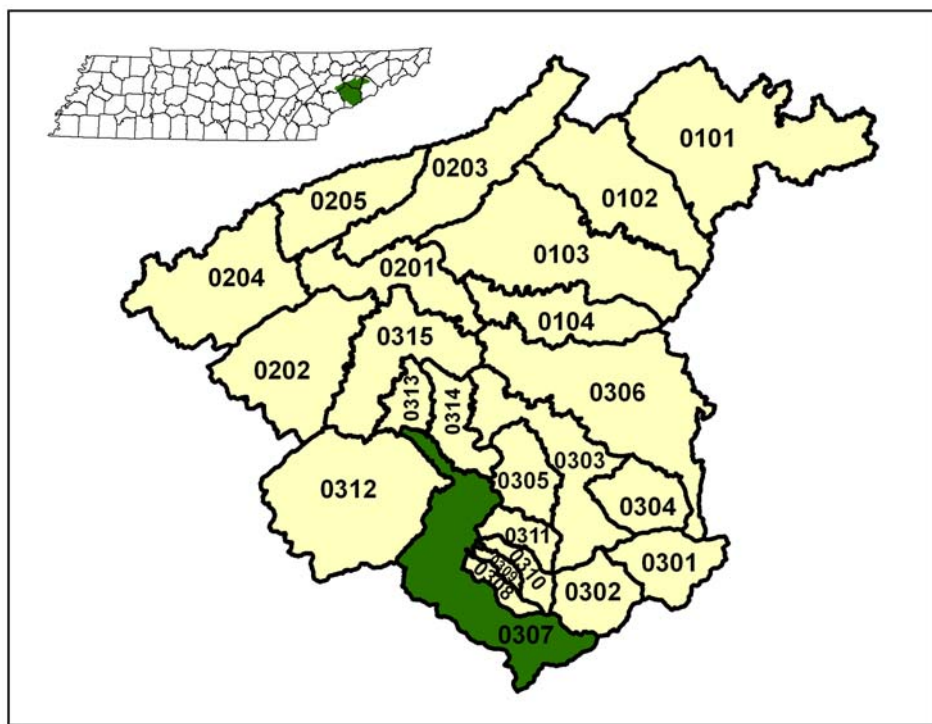


Figure 4-156. Location of Subwatershed 060101070307. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

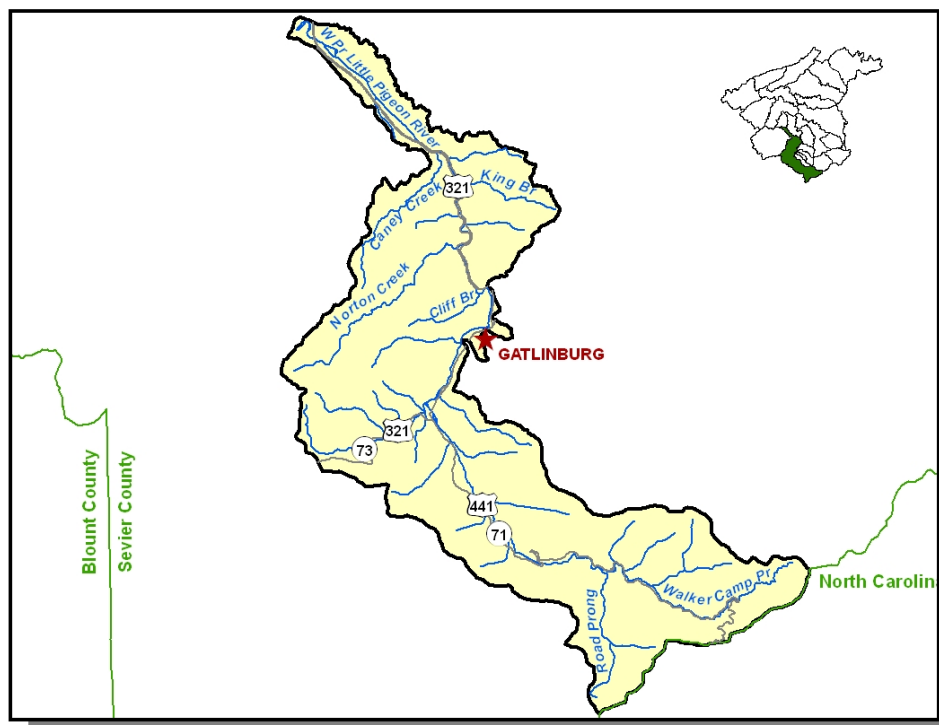


Figure 4-157. Locational Details of Subwatershed 060101070307.

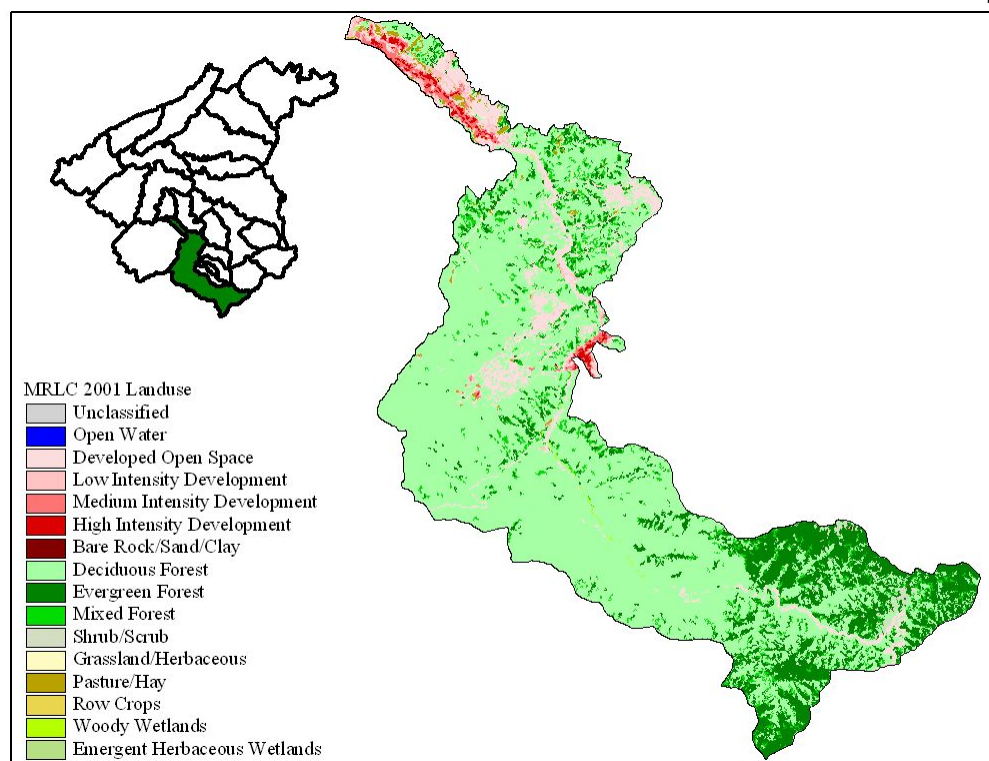


Figure 4-158. Illustration of Land Use Distribution in Subwatershed 060101070307.

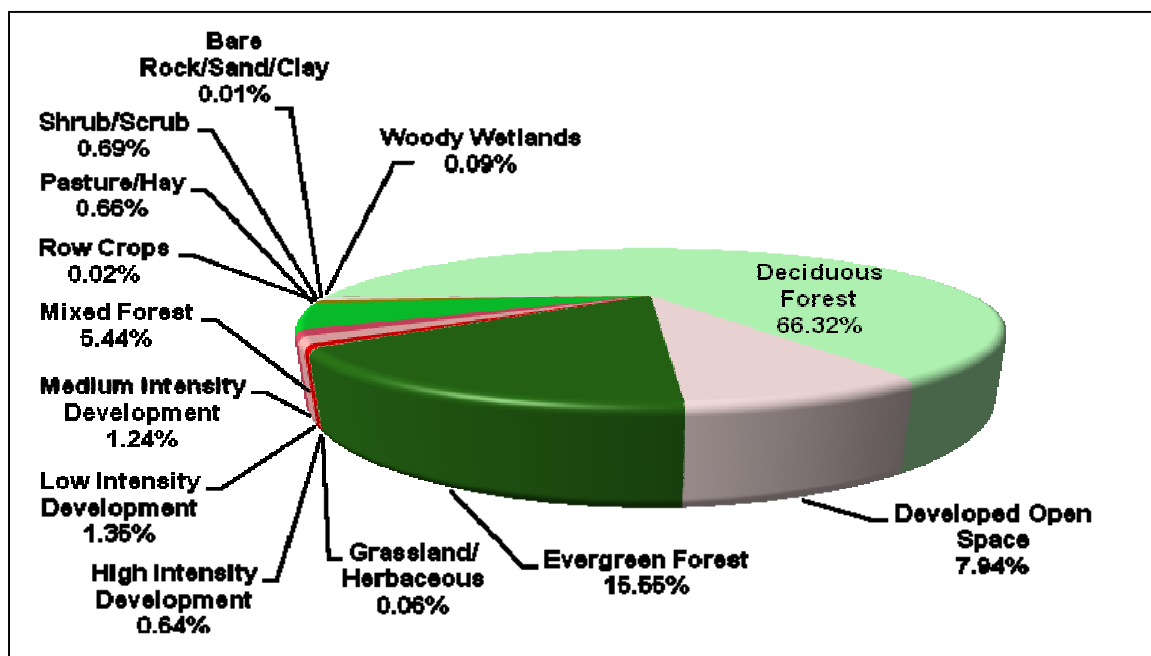


Figure 4-159. Land Use Distribution in Subwatershed 060101070307. More information is provided in Appendix IV.

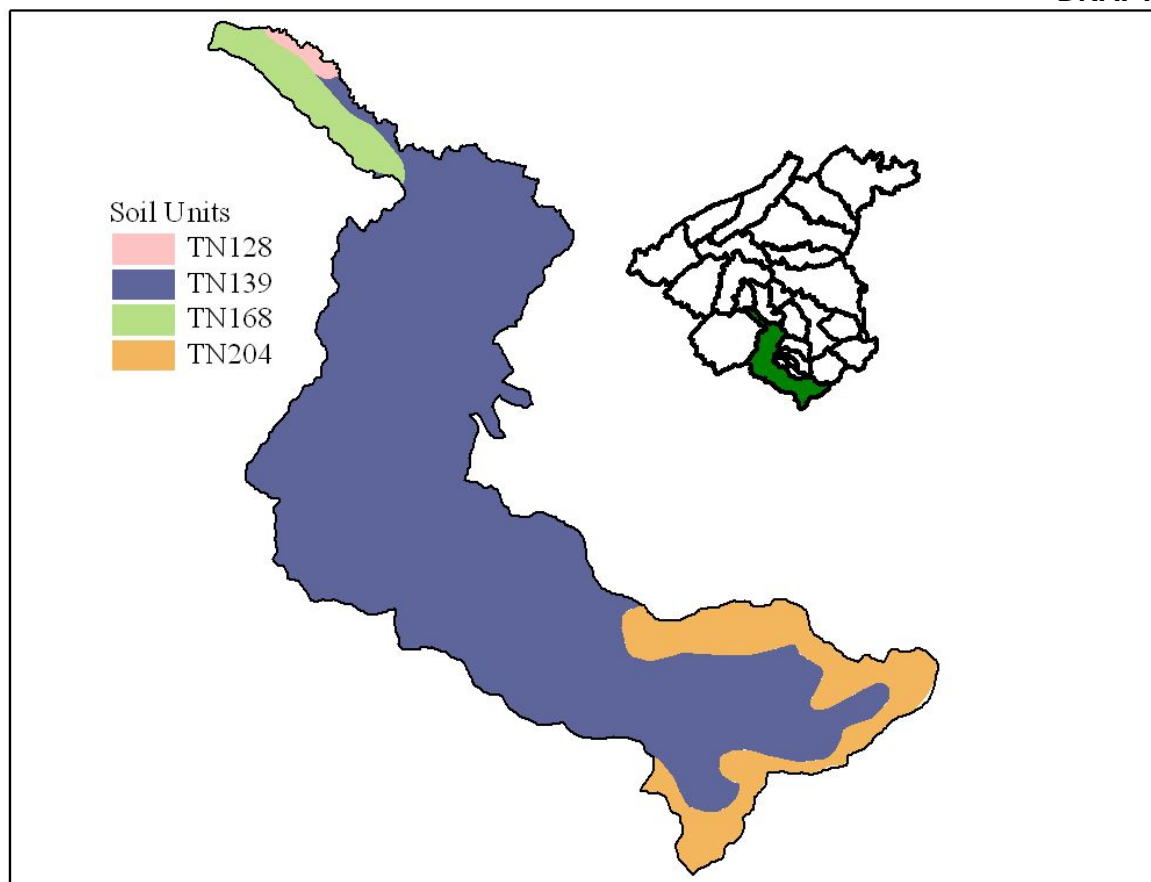


Figure 4-160. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070307.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-87. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070307. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sevier	51,043	62,774	71,170	8.75	4,465	5,491	6,225	39.40

Table 4-88. Population Estimates in Subwatershed 060101070307.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0
Pigeon Forge	Sevier	3,168	1,353	1,000	347	6
Total		6,523	4,284	2,942	1,336	6

Table 4-89. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070307.

4.2.P.ii. USGS Gaging Stations and STORET Sites

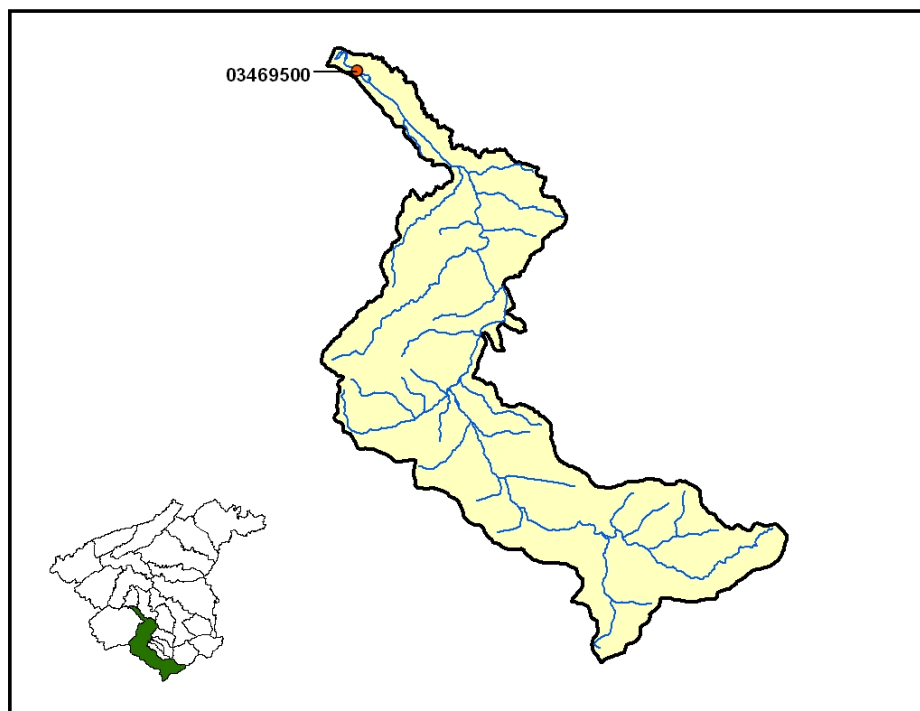


Figure 4-161. Location of USGS Continuous Record Gaging Stations in Subwatershed 060101070307. More information is provided in Appendix IV.

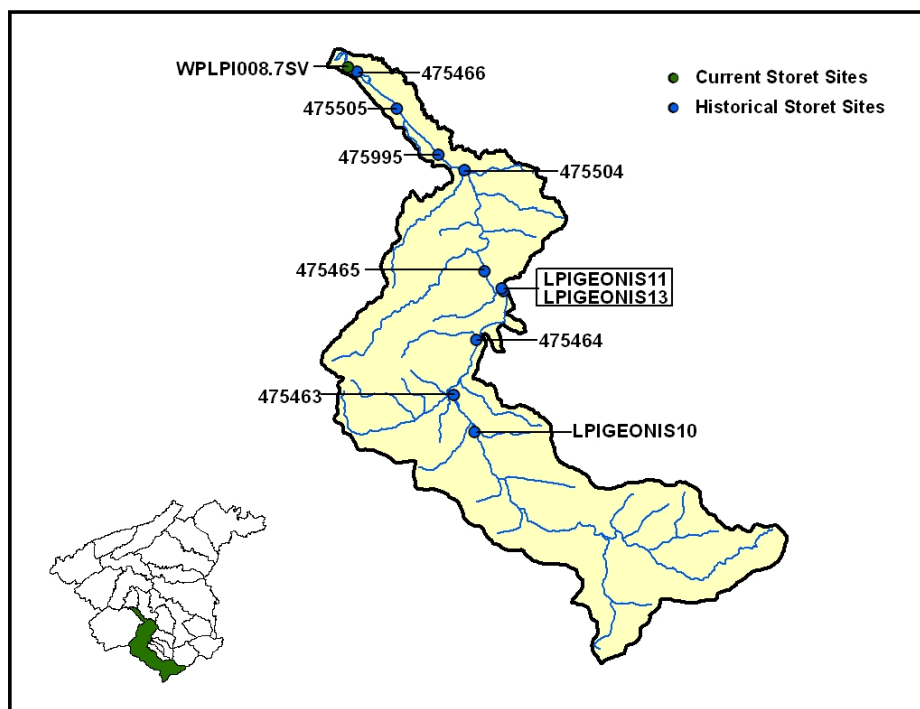


Figure 4-162. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070307. More information, including site names and locations, is provided in Appendix IV.

4.2.P.iii. Permitted Activities.

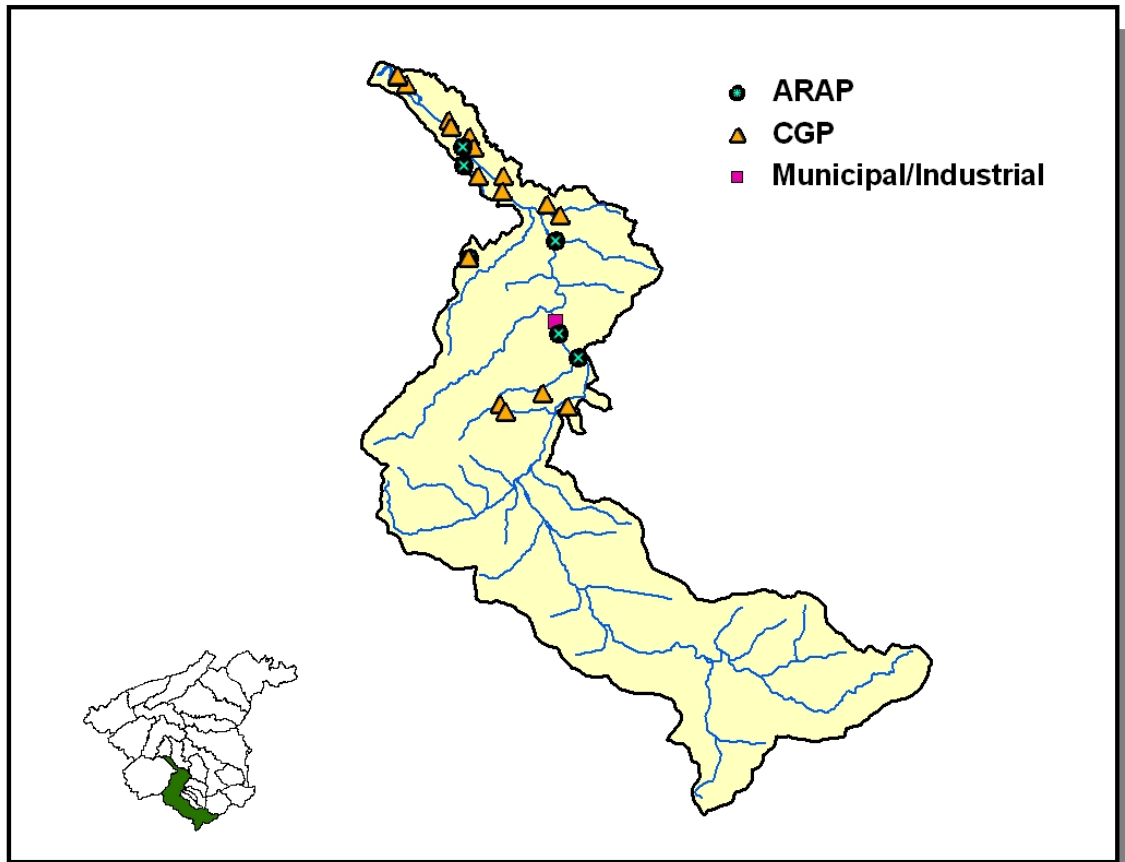


Figure 4-163. Location of Permits Issued in Subwatershed 060101070307. More information, including the names of facilities, is provided in Appendix IV.

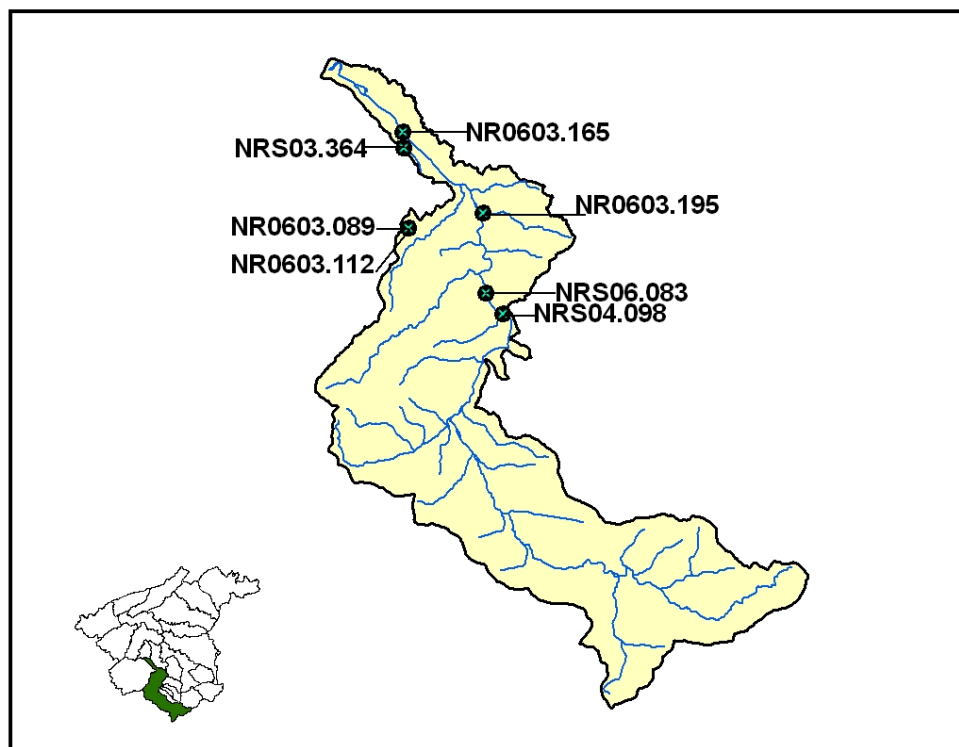


Figure 4-164. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070307. More information is provided in Appendix IV.

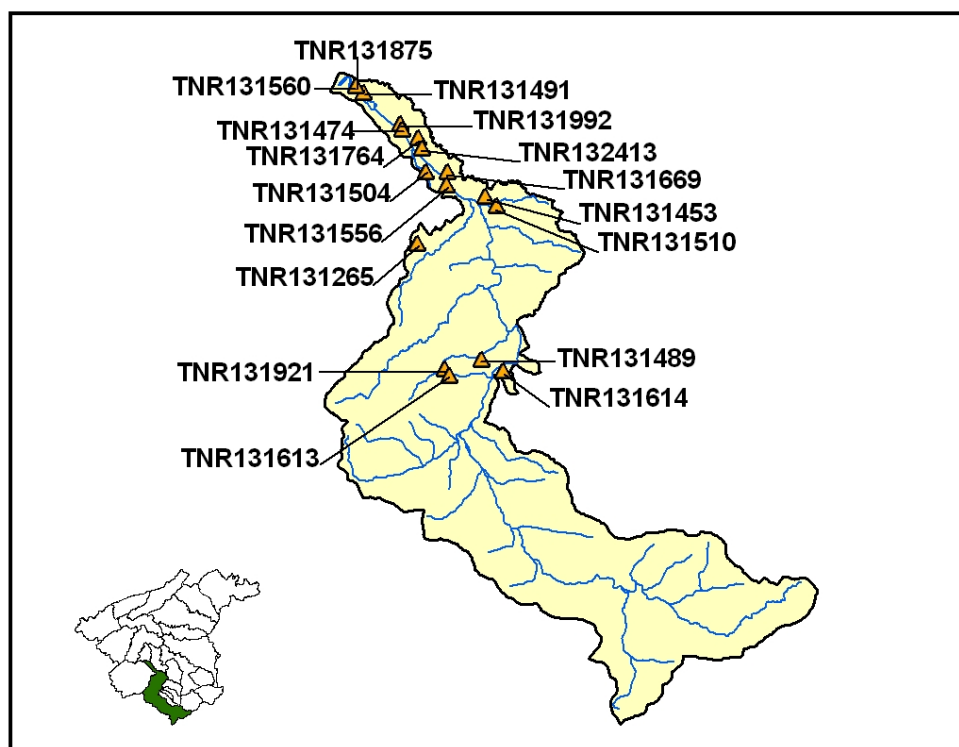


Figure 4-165. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070307. More information is provided in Appendix IV.

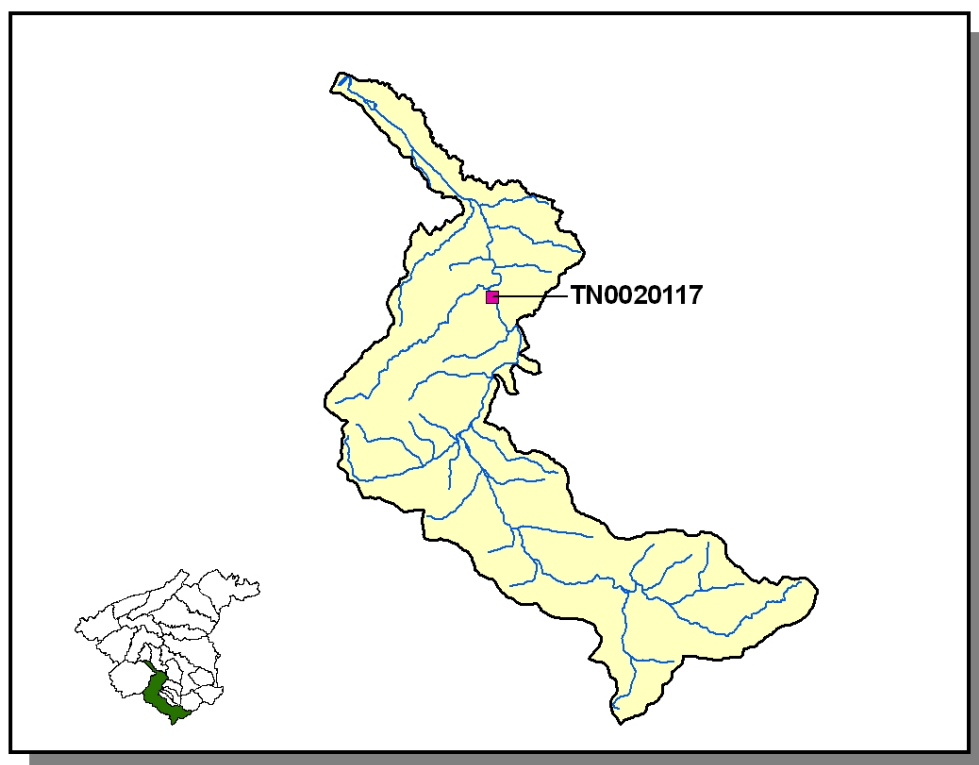


Figure 4-166. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070307. More information, including the name of the facility is provided in Appendix IV.

4.2.P.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-90. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-91. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.49
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.21
Legume Grass (Hayland)	0.06

Table 4-92. Annual Estimated Total Soil Loss in Subwatershed 060101070307.

4.2.Q. 060101070308 (Le Conte Creek)

4.2.Q.i. General Description

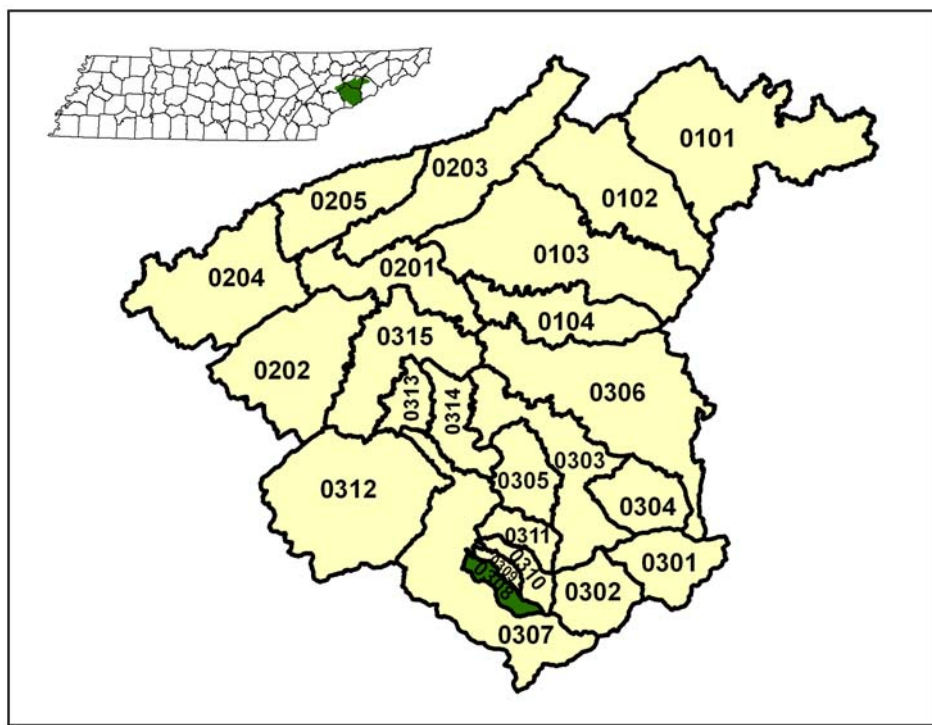


Figure 4-167. Location of Subwatershed 060101070308. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

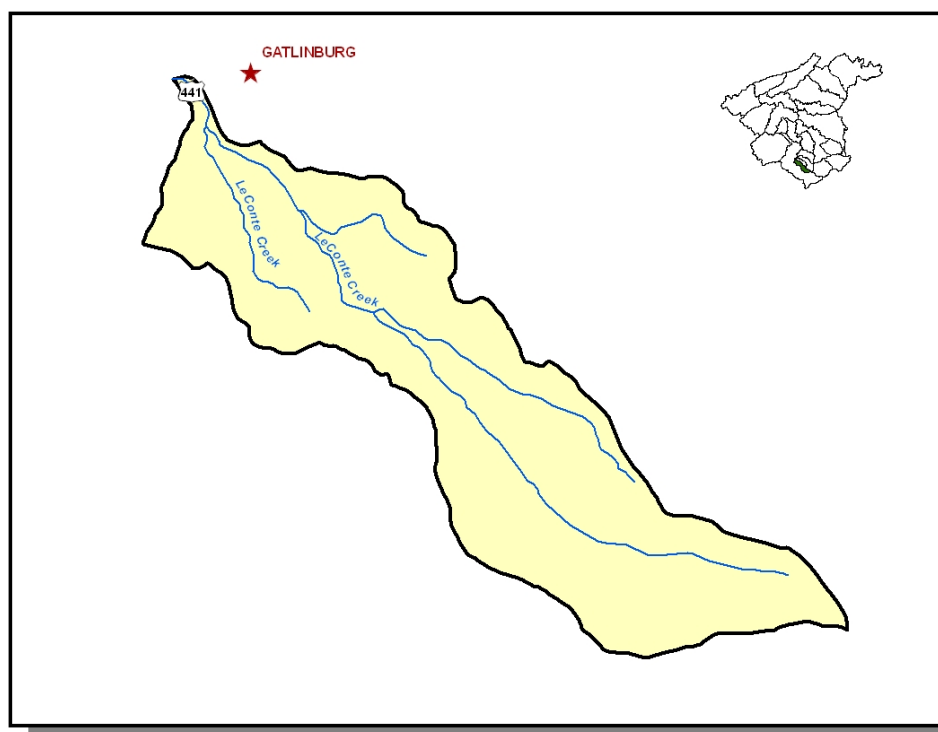


Figure 4-168. Locational Details of Subwatershed 060101070308.

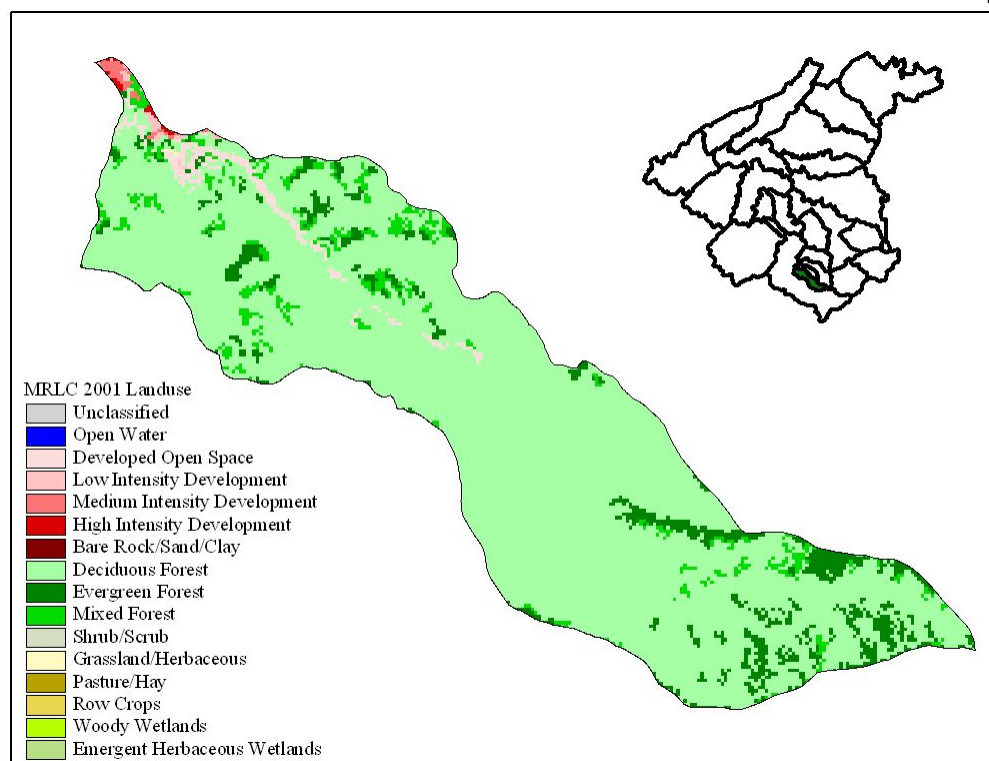


Figure 4-169. Illustration of Land Use Distribution in Subwatershed 060101070308.

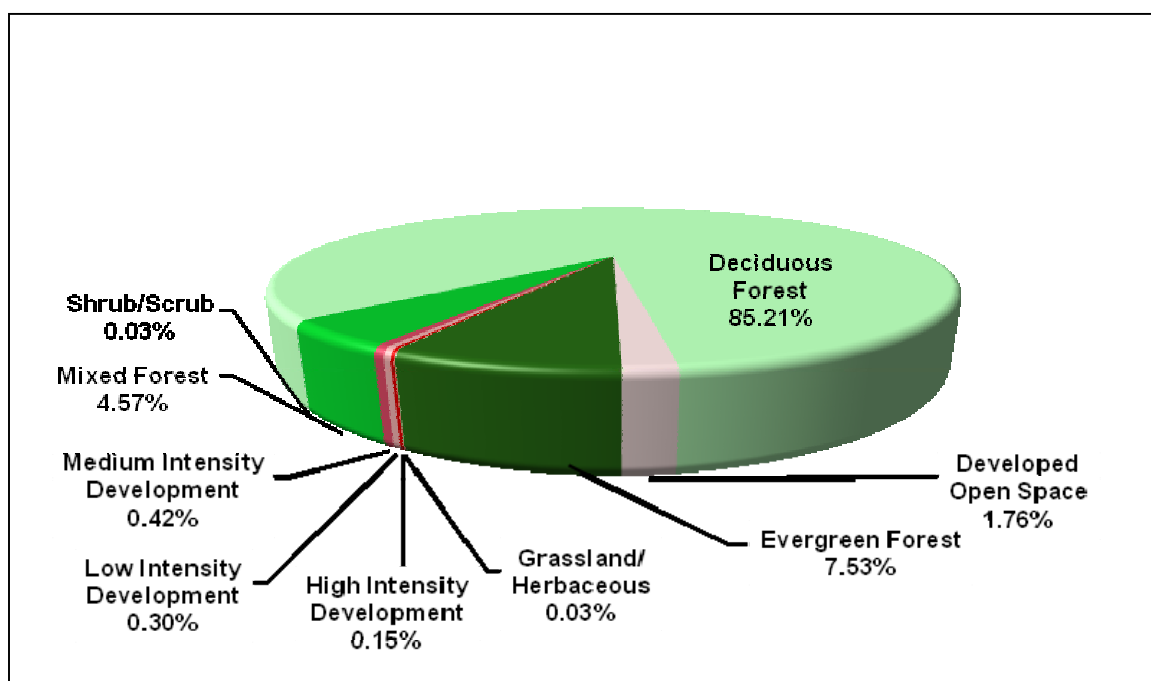


Figure 4-170. Land Use Distribution in Subwatershed 060101070308. More information is provided in Appendix IV.

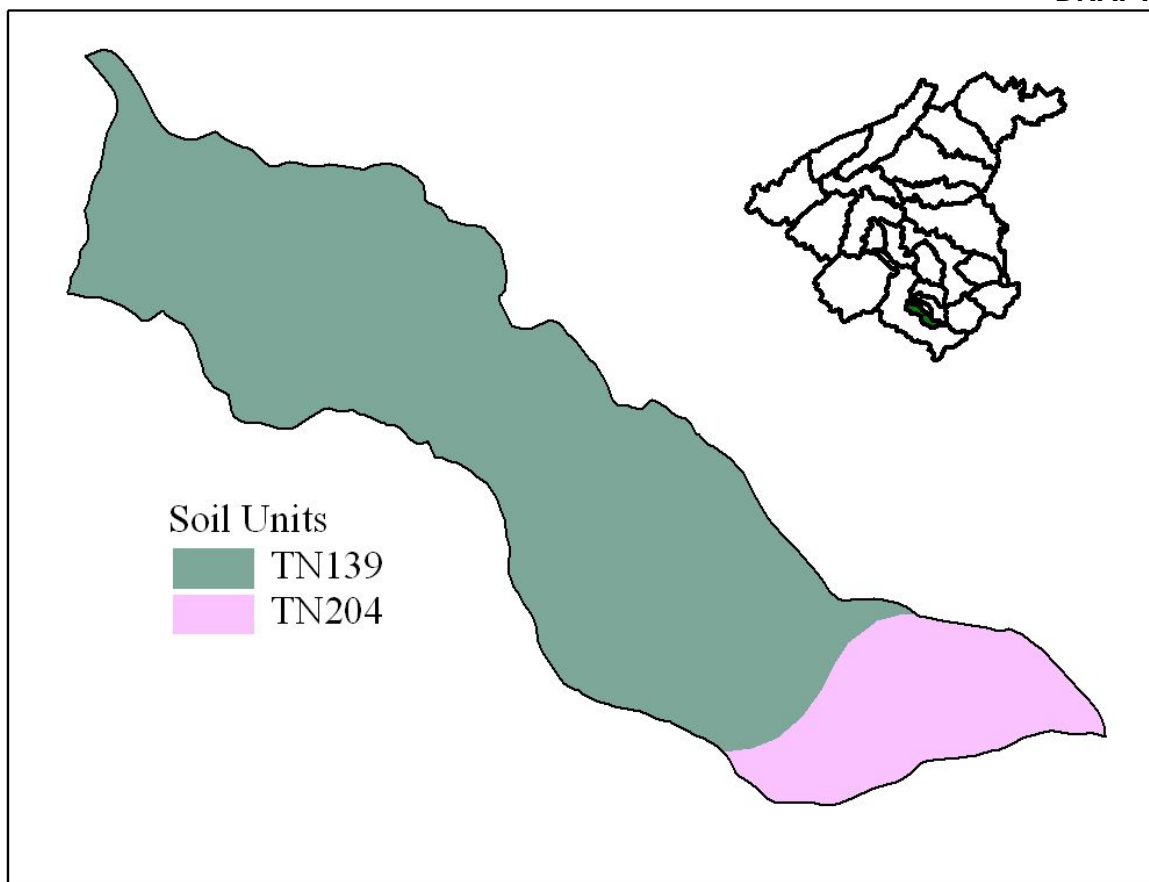


Figure 4-171. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070308.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-93. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070308. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	0.86	440	541	613	39.3

Table 4-94. Population Estimates in Subwatershed 060101070308.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0

Table 4-95. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070308.

4.2.Q.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations or STORET sites in subwatershed 060101070308.

4.2.Q.iii. Permitted Activities.

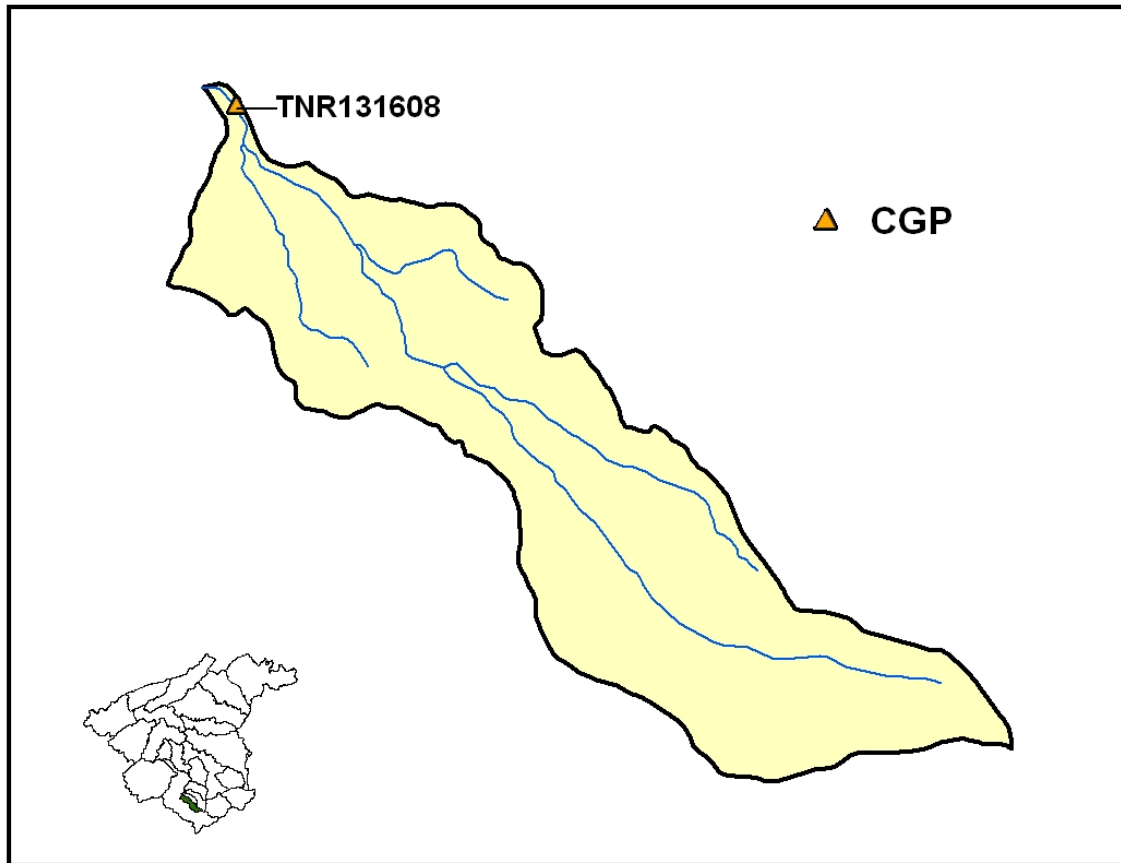


Figure 4-172. Location of Permits Issued in Subwatershed 060101070308. More information, including the names of facilities, is provided in Appendix IV.

4.2.Q.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-96. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-97. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-98. Annual Estimated Total Soil Loss in Subwatershed 060101070308.

4.2.R. 060101070309 (Baskins Creek)

4.2.R.i. General Description

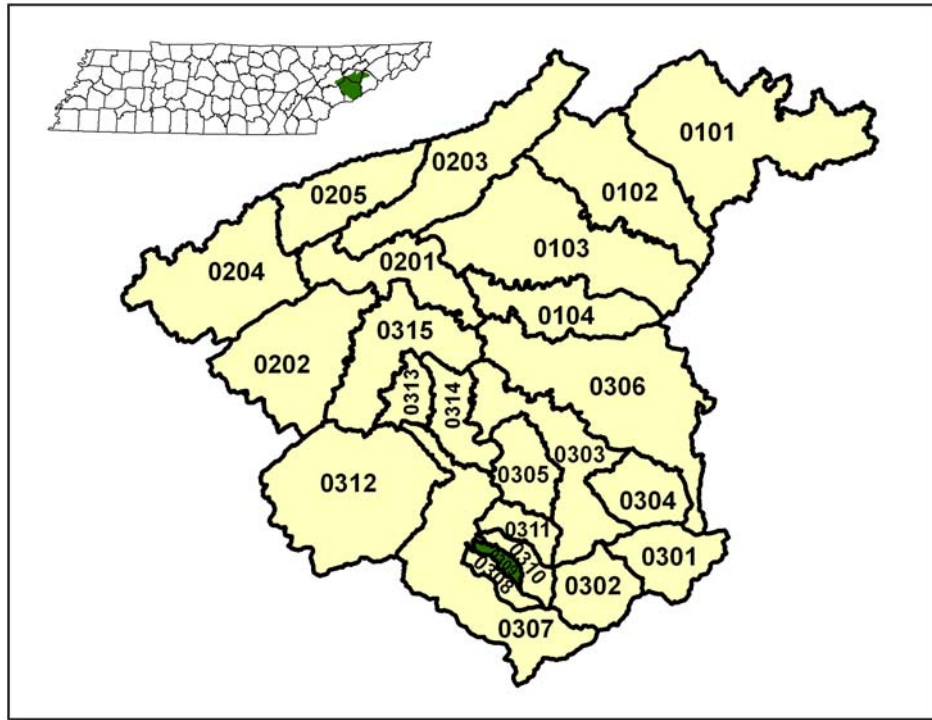


Figure 4-173. Location of Subwatershed 060101070309. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

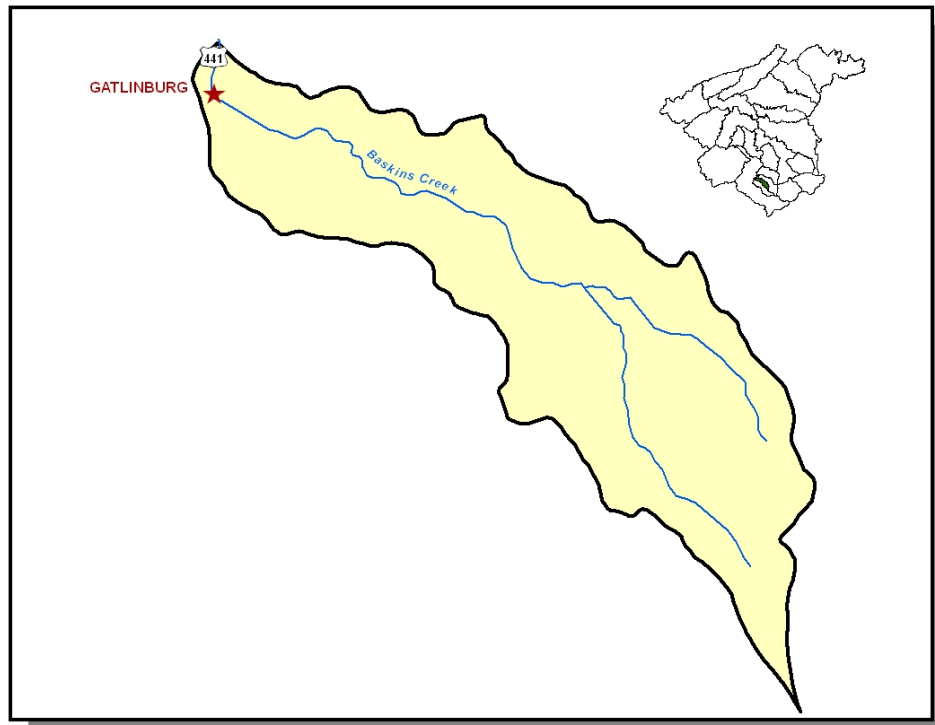


Figure 4-174. Locational Details of Subwatershed 060101070309.

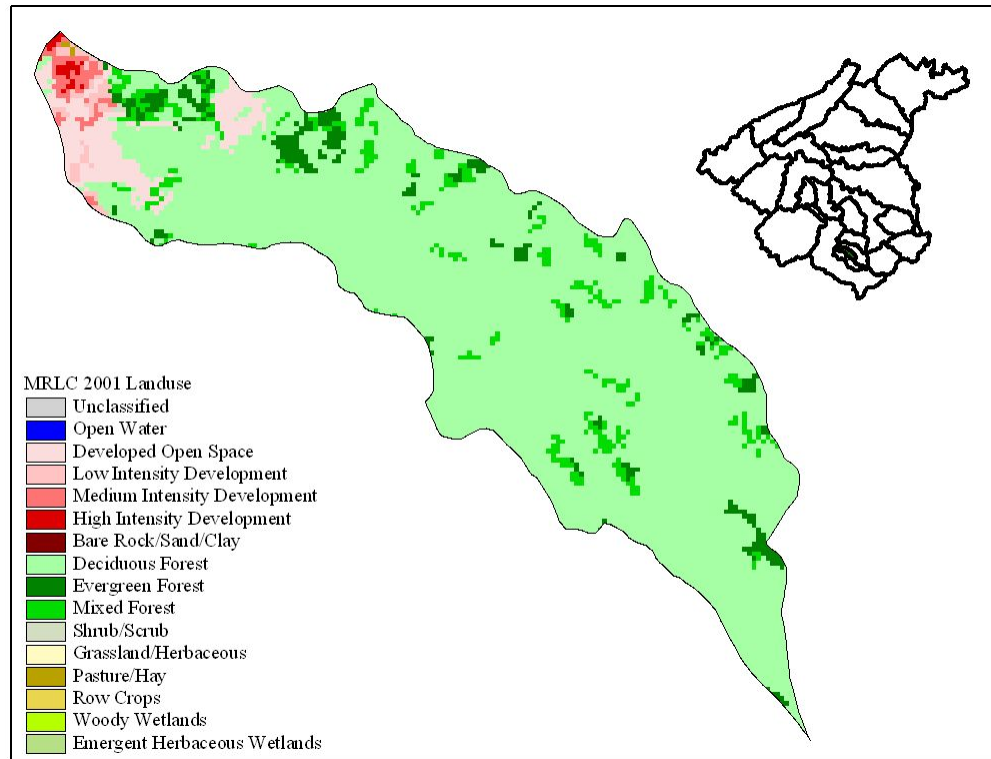


Figure 4-175. Illustration of Land Use Distribution in Subwatershed 060101070309.

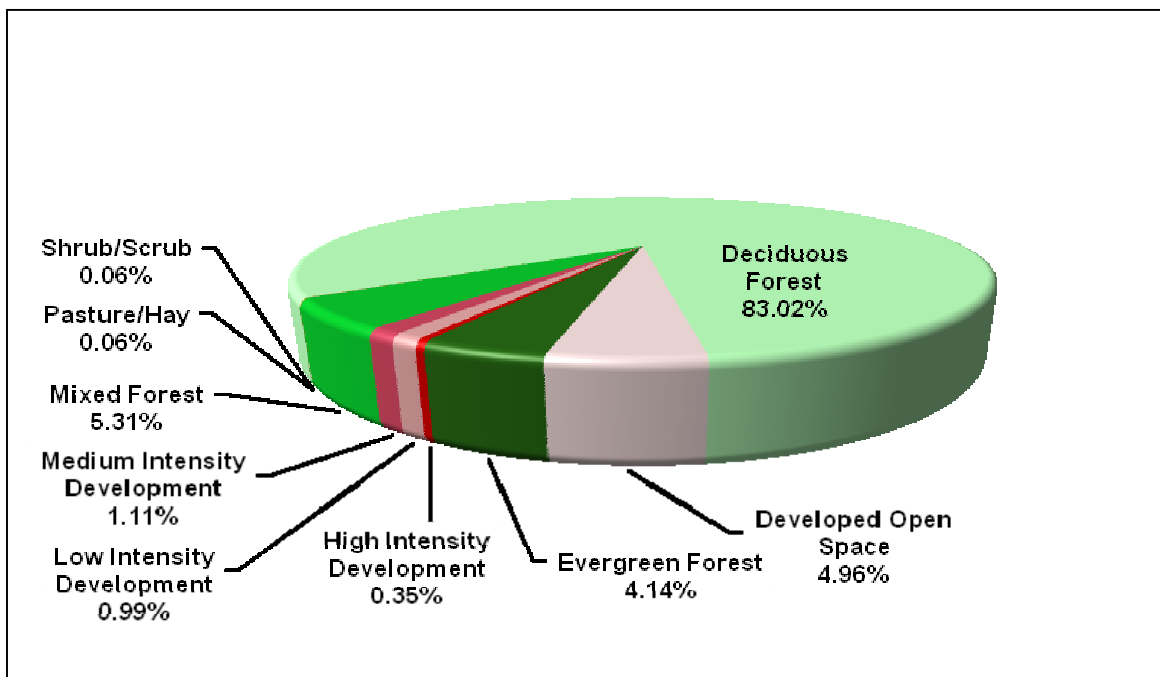


Figure 4-176. Land Use Distribution in Subwatershed 060101070309. More information is provided in Appendix IV.

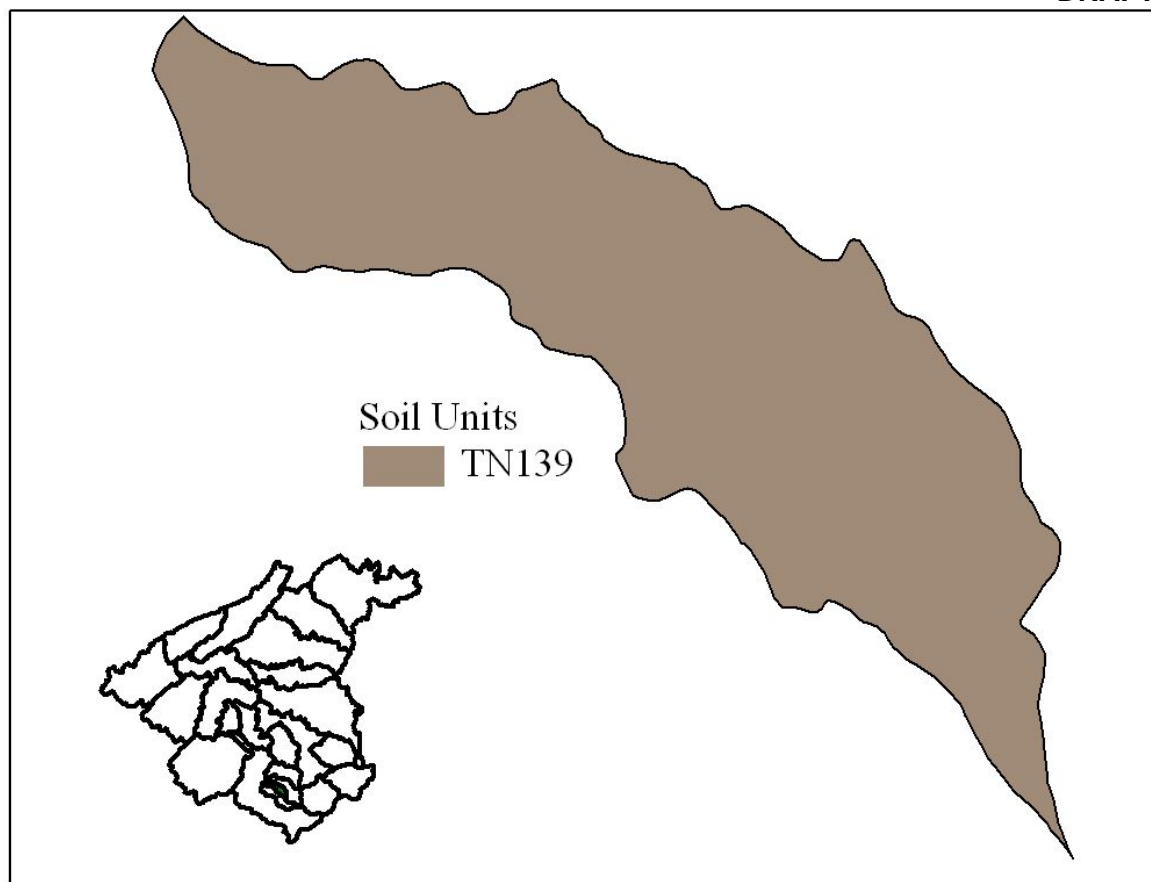


Figure 4-177. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070309.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20

Table 4-99. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070309. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	0.44	225	277	314	39.60

Table 4-100. Population Estimates in Subwatershed 060101070309.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1942	989	0

Table 4-101. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070309.

4.2.R.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations or STORET sites located in subwatershed 060101070309.

4.2.R.iii. Permitted Activities.

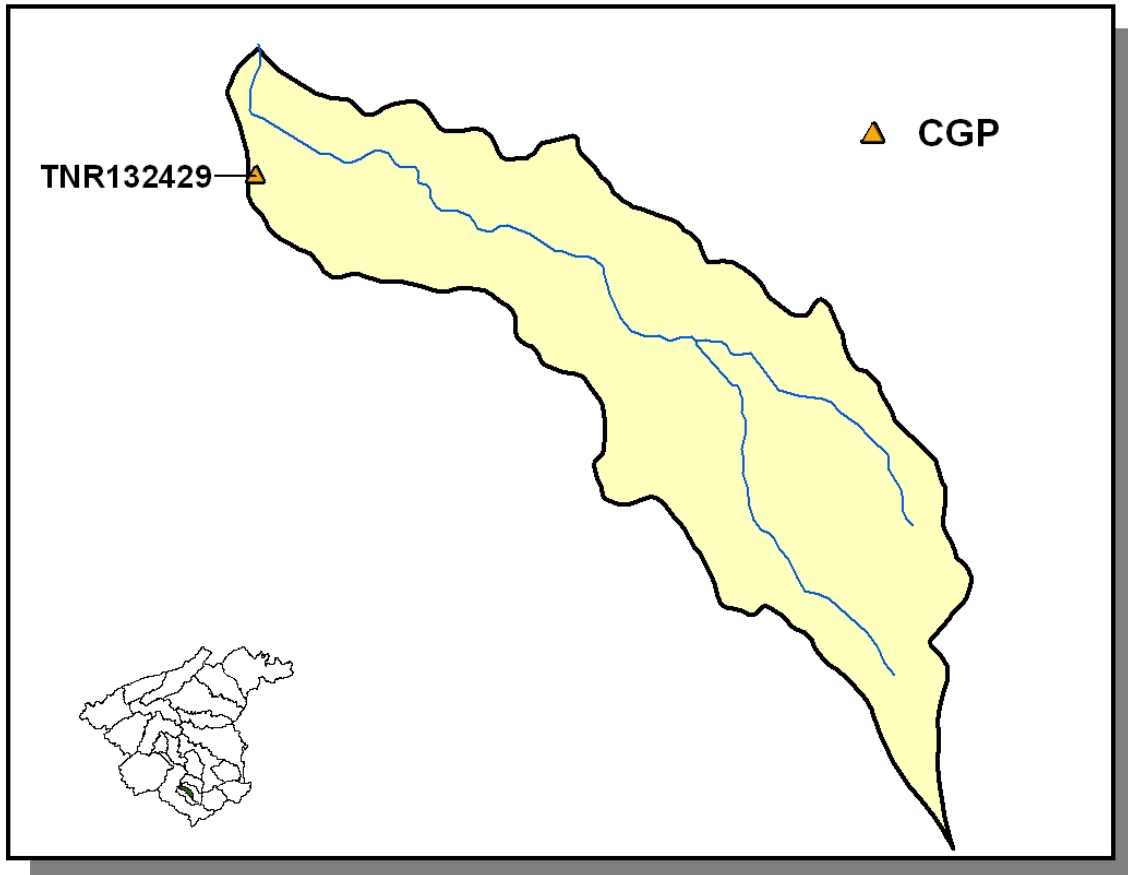


Figure 4-178. Location of Permits Issued in Subwatershed 060101070309. More information, including the names of facilities, is provided in Appendix IV.

4.2.R.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-102. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-103. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22

Table 4-104. Annual Estimated Total Soil Loss in Subwatershed 060101070309.

4.2.S. 060101070310 (Roaring Fork)

4.2.S.i. General Description

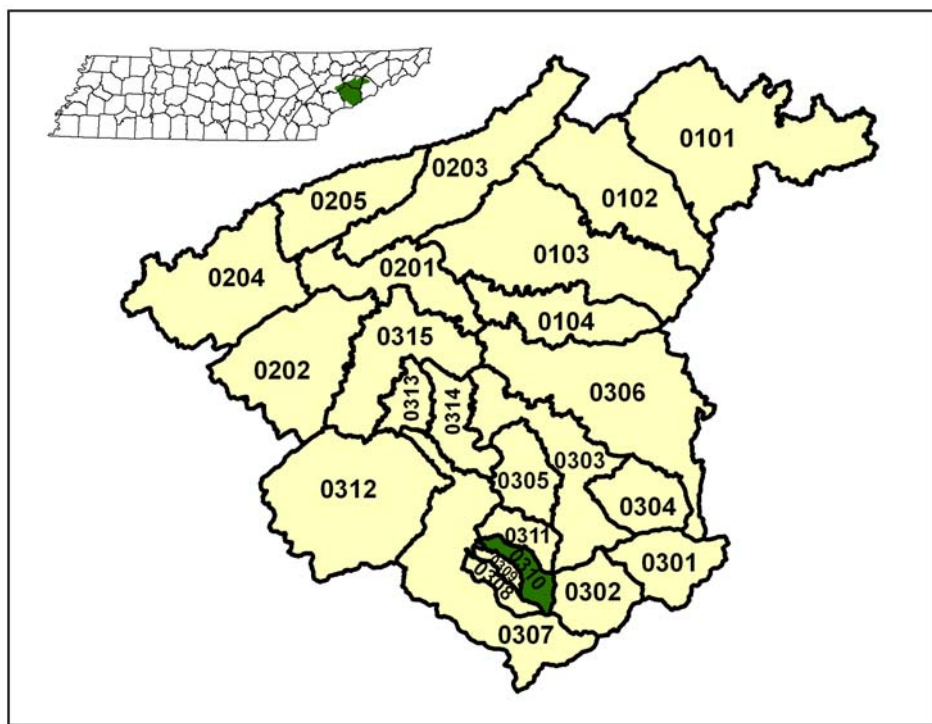


Figure 4-179. Location of Subwatershed 060101070310. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

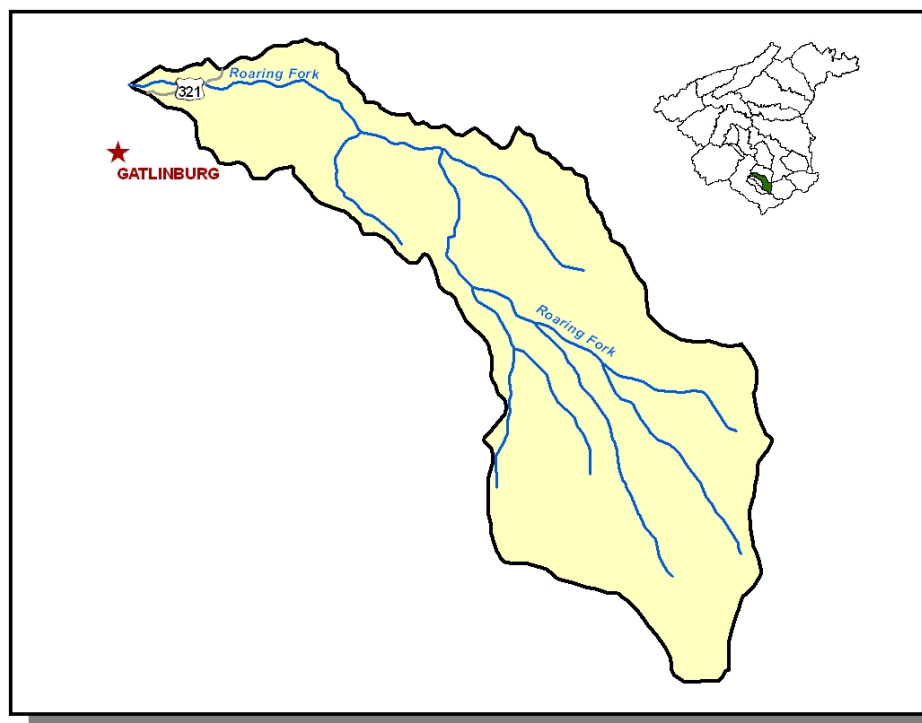


Figure 4-180. Locational Details of Subwatershed 060101070310.

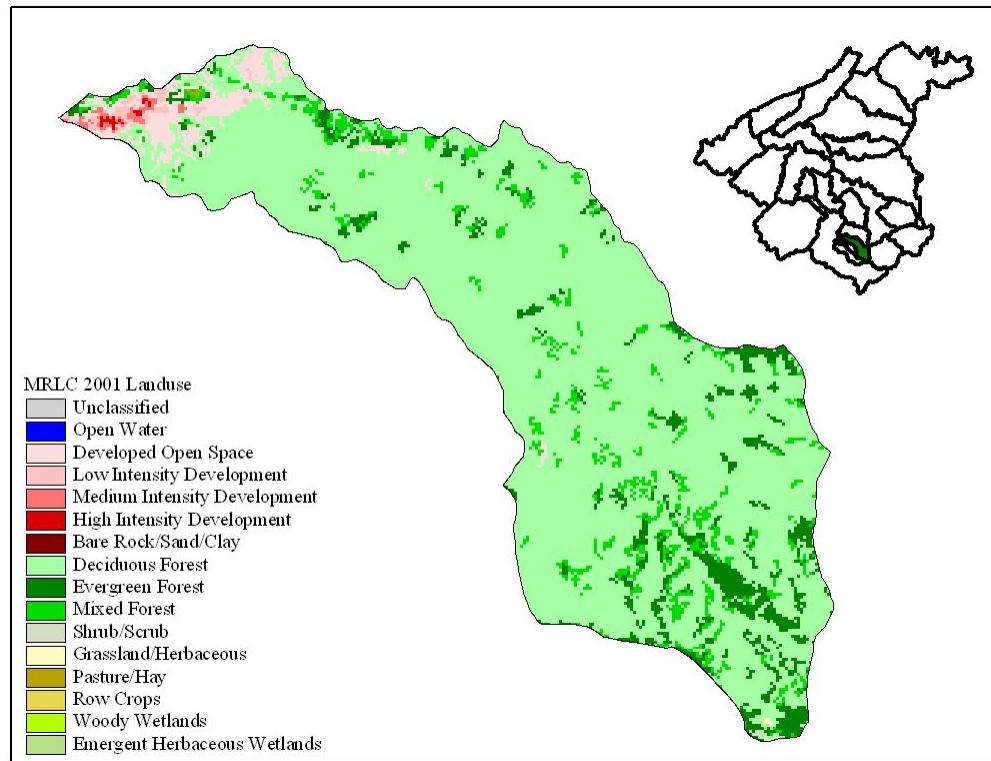


Figure 4-181. Illustration of Land Use Distribution in Subwatershed 060101070310.

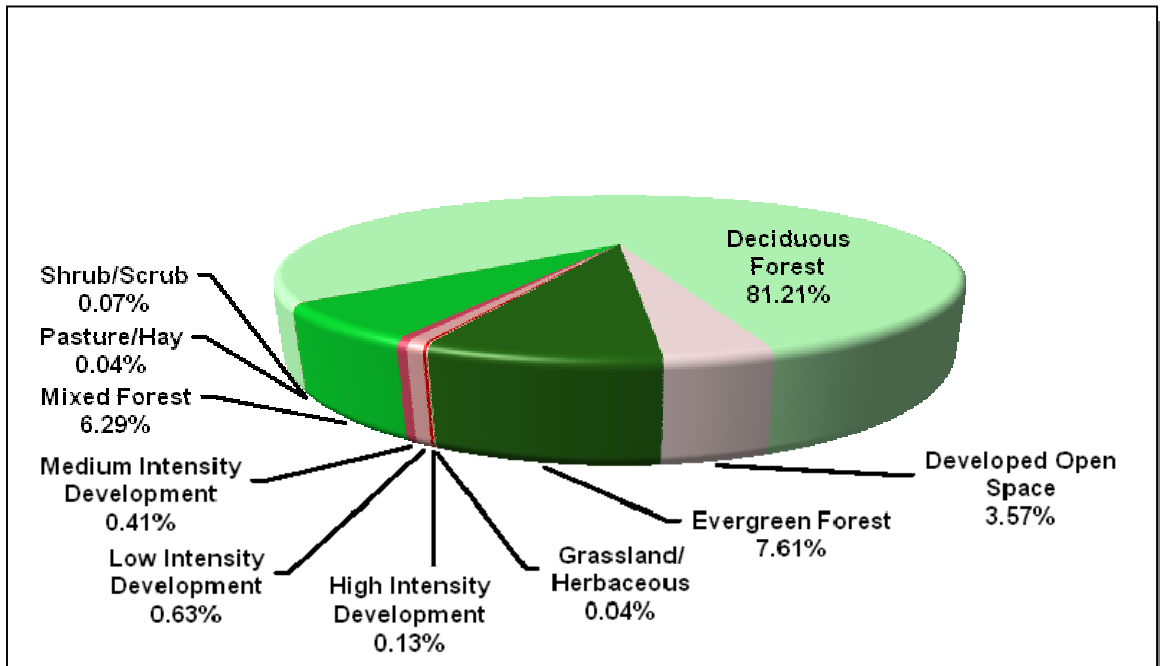


Figure 4-182. Land Use Distribution in Subwatershed 060101070310. More information is provided in Appendix IV.

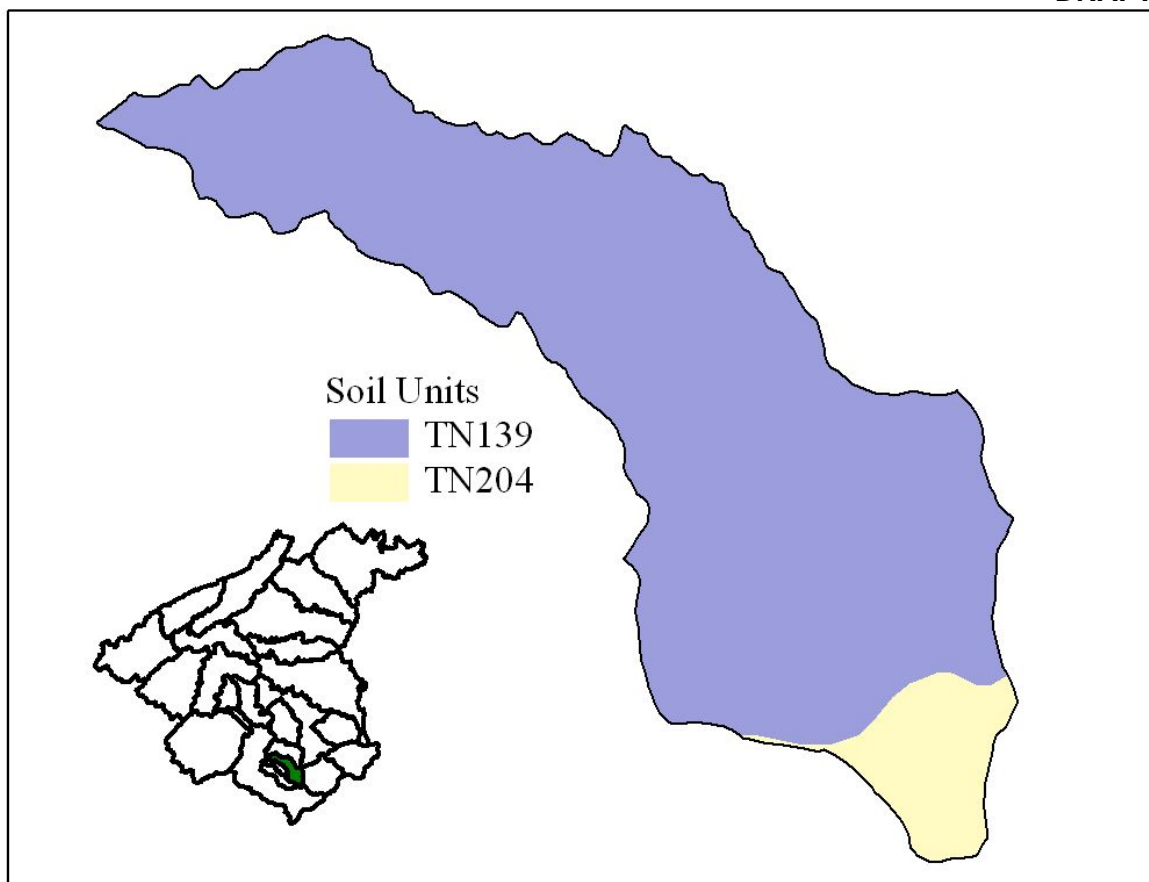


Figure 4-183. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070310.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN204	0.00	B	3.95	4.80	Sandy Loam	0.19

Table 4-105. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070310. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	1.18	604	743	842	39.4

Table 4-106. Population Estimates in Subwatershed 060101070310.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0

Table 4-107. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070310.

4.2.S.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations or STORET sites located in subwatershed 060101070310.

4.2.S.iii. Permitted Activities.

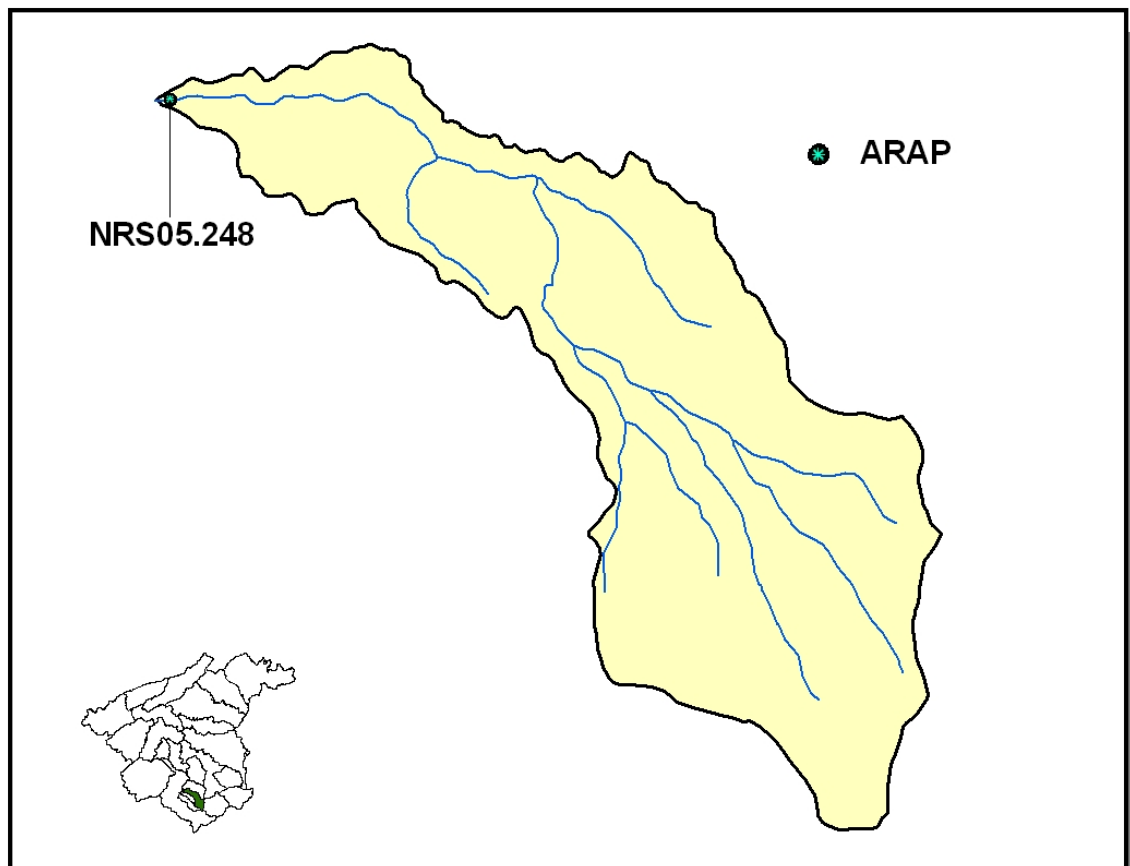


Figure 4-184. Location of Permits Issued in Subwatershed 060101070310. More information, including the names of facilities, is provided in Appendix IV.

4.2.S.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-6. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-108. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-109. Annual Estimated Total Soil Loss in Subwatershed 060101070310.

4.2.T. 060101070311 (Dudley Creek).

4.2.T.i. General Description

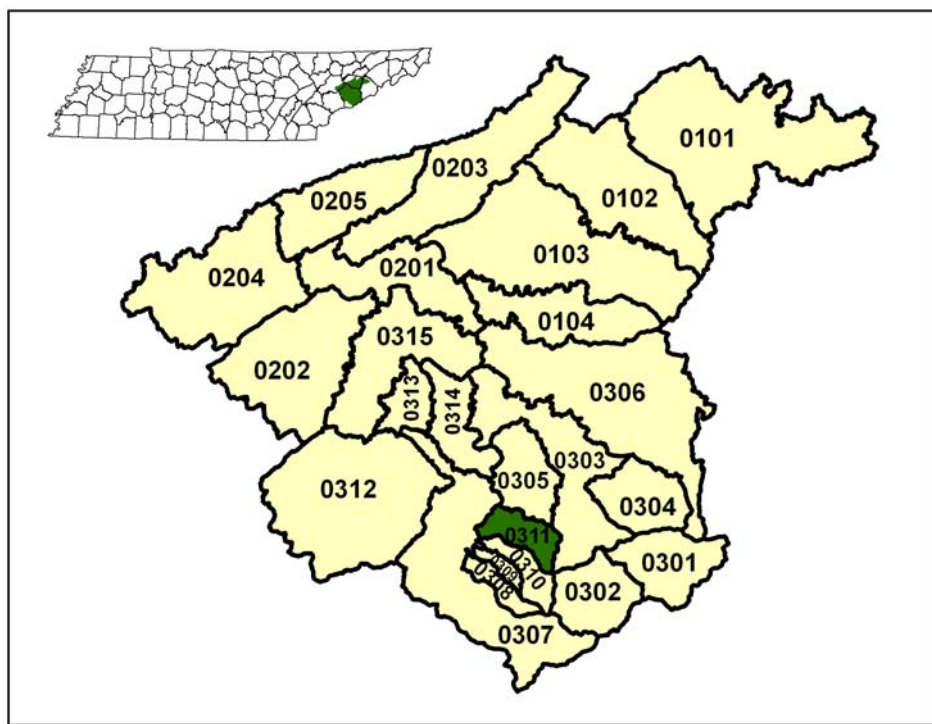


Figure 4-185. Location of Subwatershed 060101070311. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

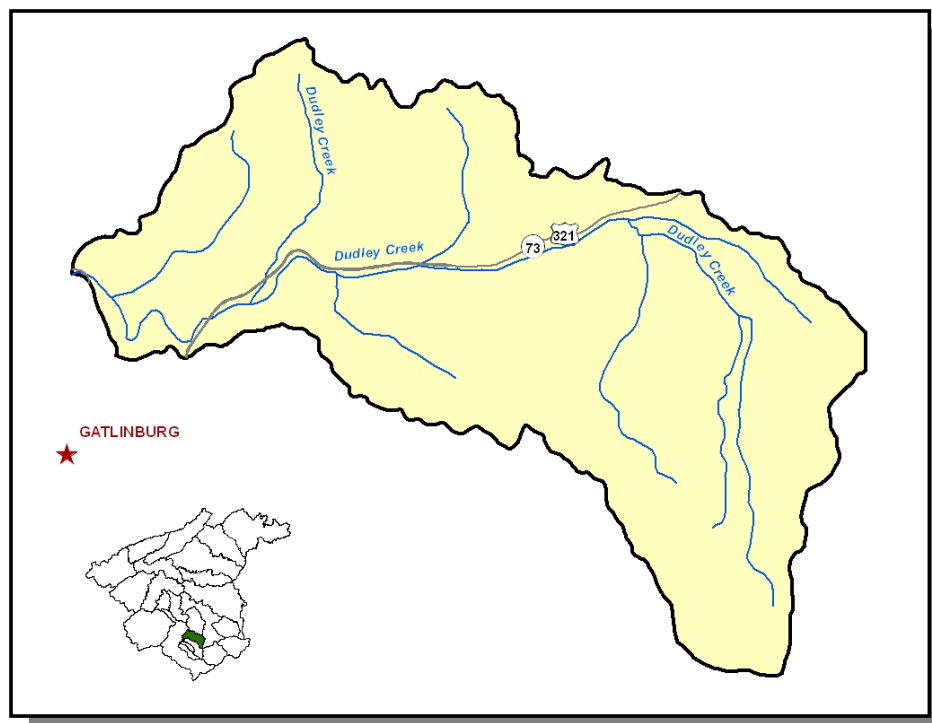


Figure 4-186. Locational Details of Subwatershed 060101070311.

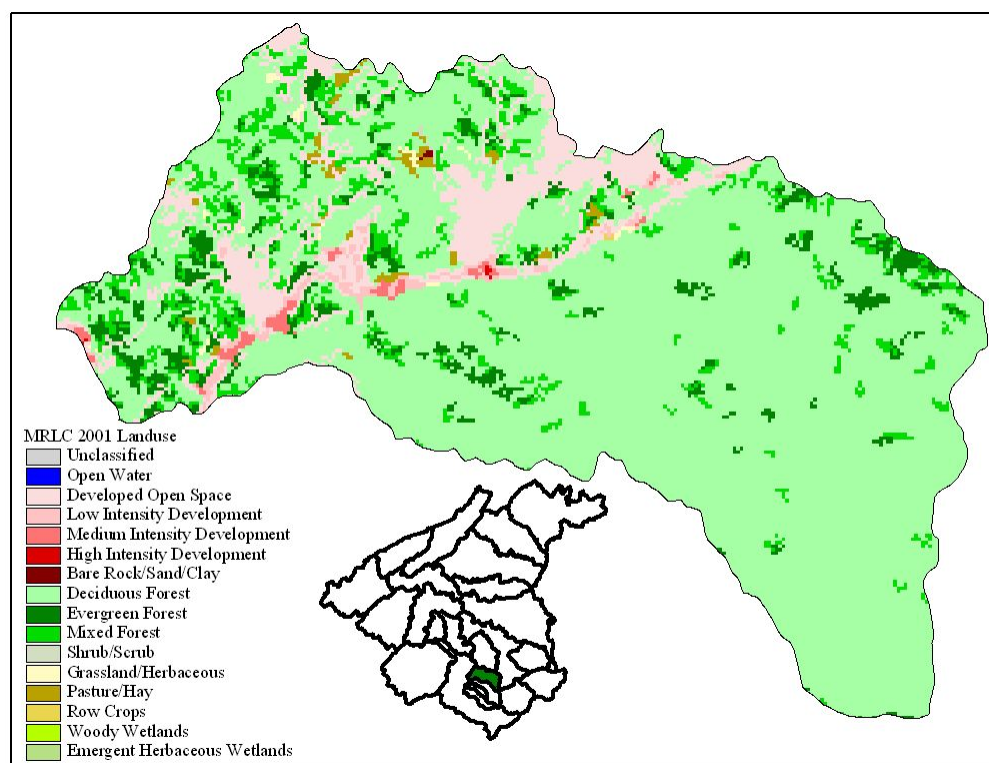


Figure 4-187. Illustration of Land Use Distribution in Subwatershed 060101070311.

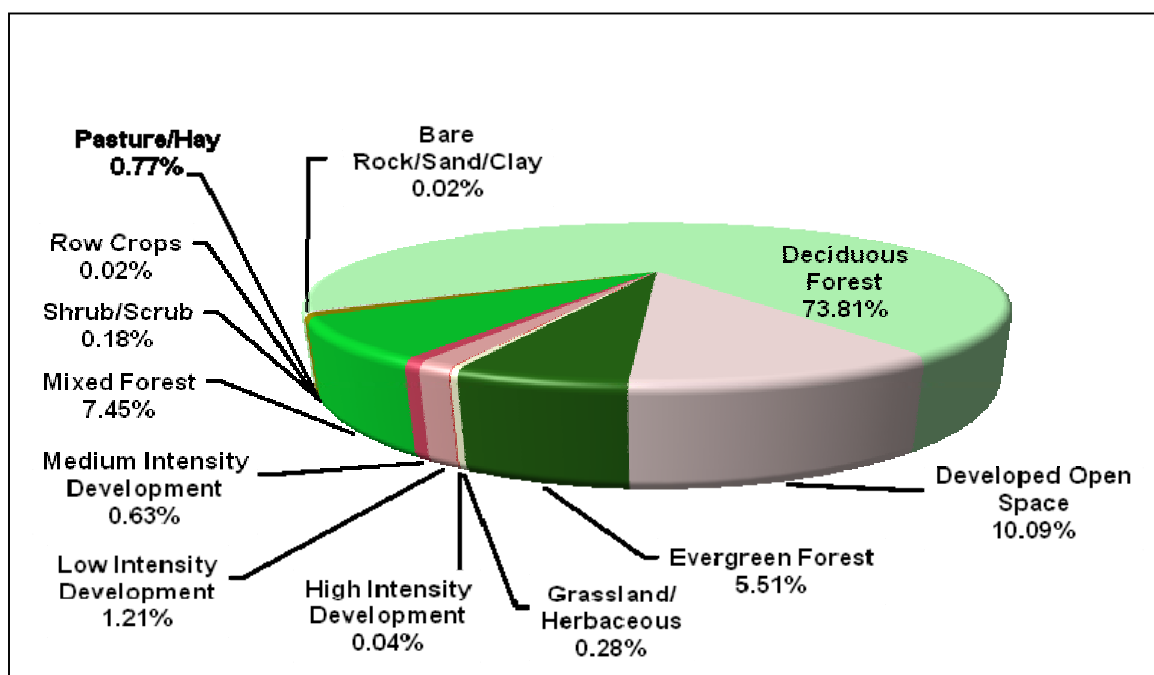


Figure 4-188. Land Use Distribution in Subwatershed 060101070311. More information is provided in Appendix IV.

DRAFT

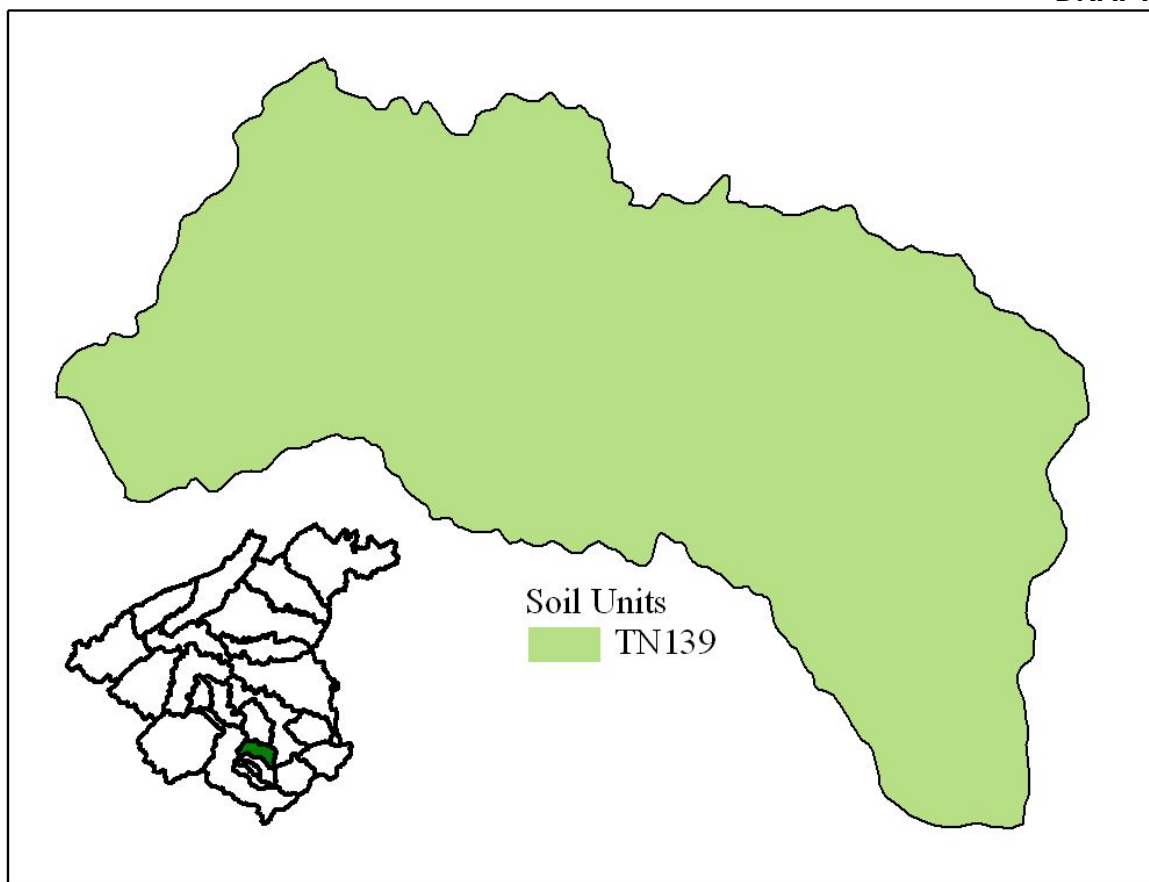


Figure 4-189. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070311.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20

Table 4-110. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070311. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	1.47	749	921	1,044	39.40

Table 4-111. Population Estimates in Subwatershed 060101070311.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Gatlinburg	Sevier	3,355	2,931	1,942	989	0

Table 4-112. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070311.

4.2.T.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070311.

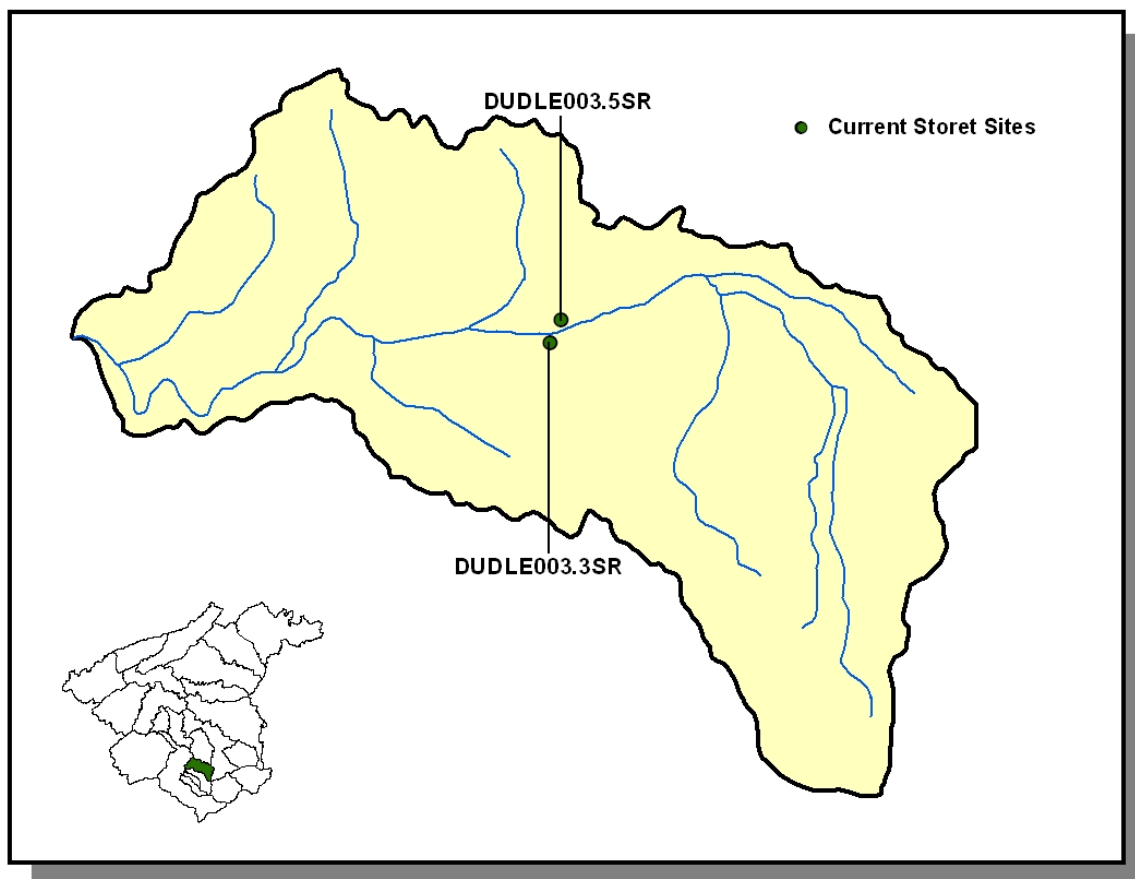


Figure 4-190. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070311. More information, including site names and locations, is provided in Appendix IV.

4.2.T.iii. Permitted Activities.

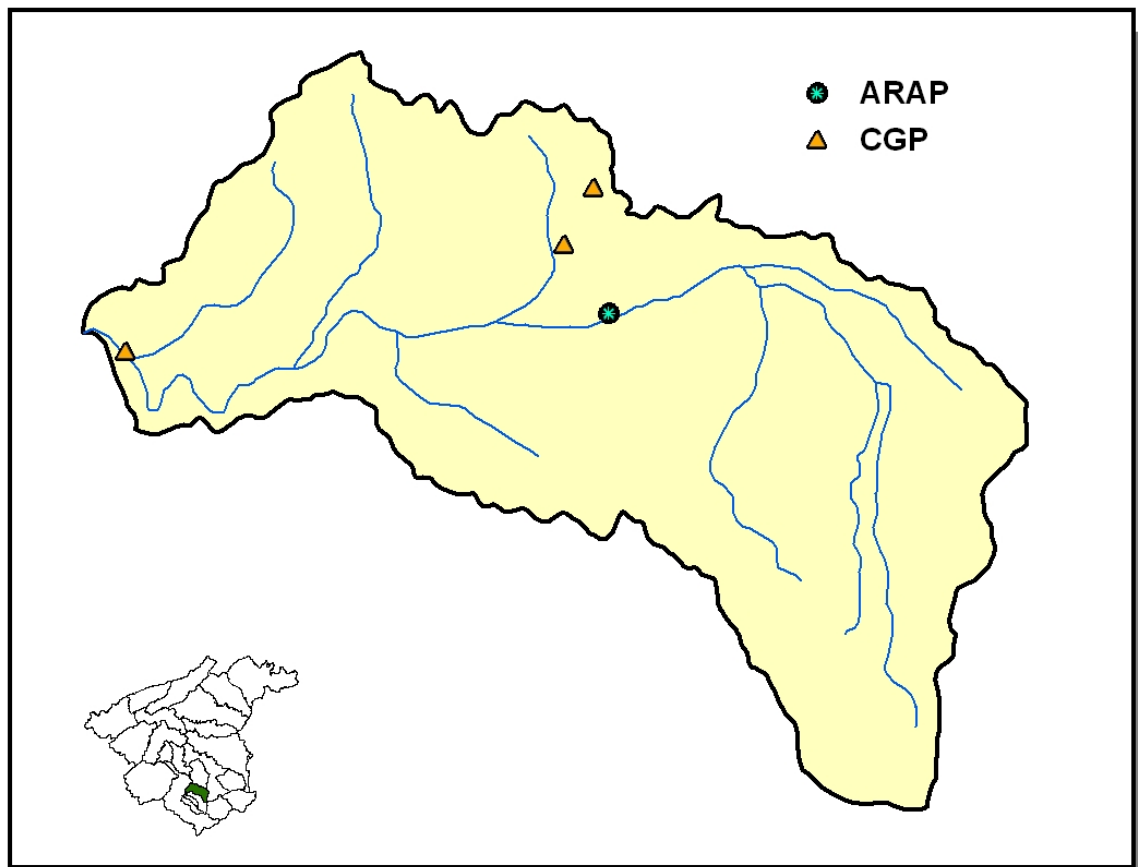


Figure 4-191. Location of Permits Issued in Subwatershed 060101070311 More information, including the names of facilities, is provided in Appendix IV.

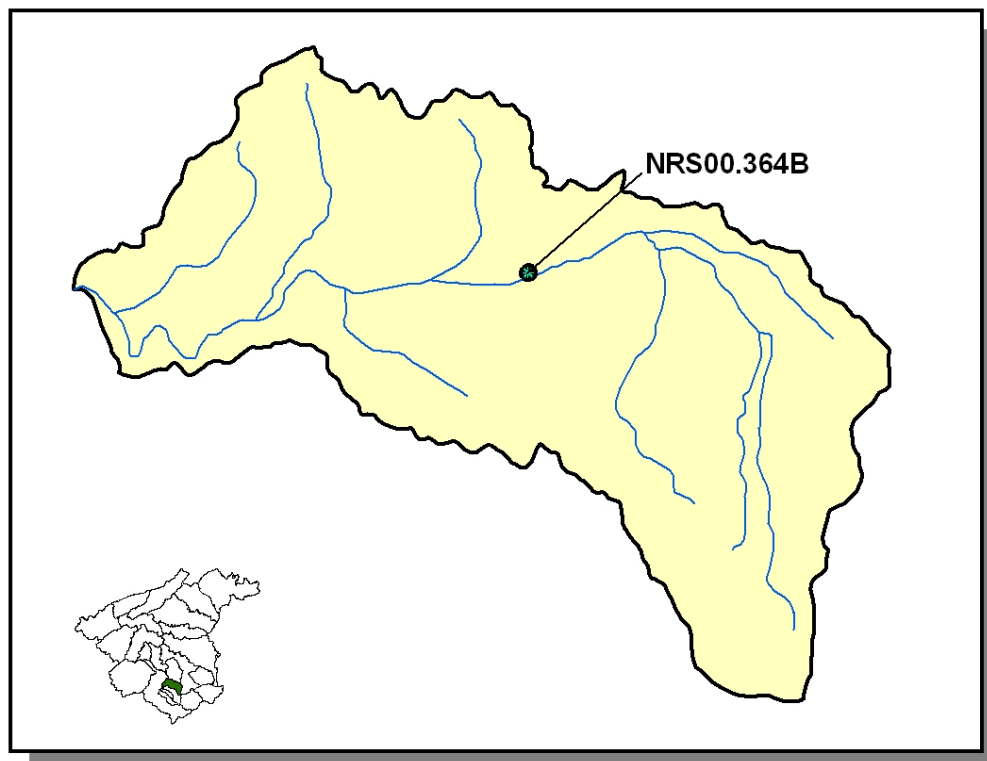


Figure 4-192. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070311. More information is provided in Appendix IV.

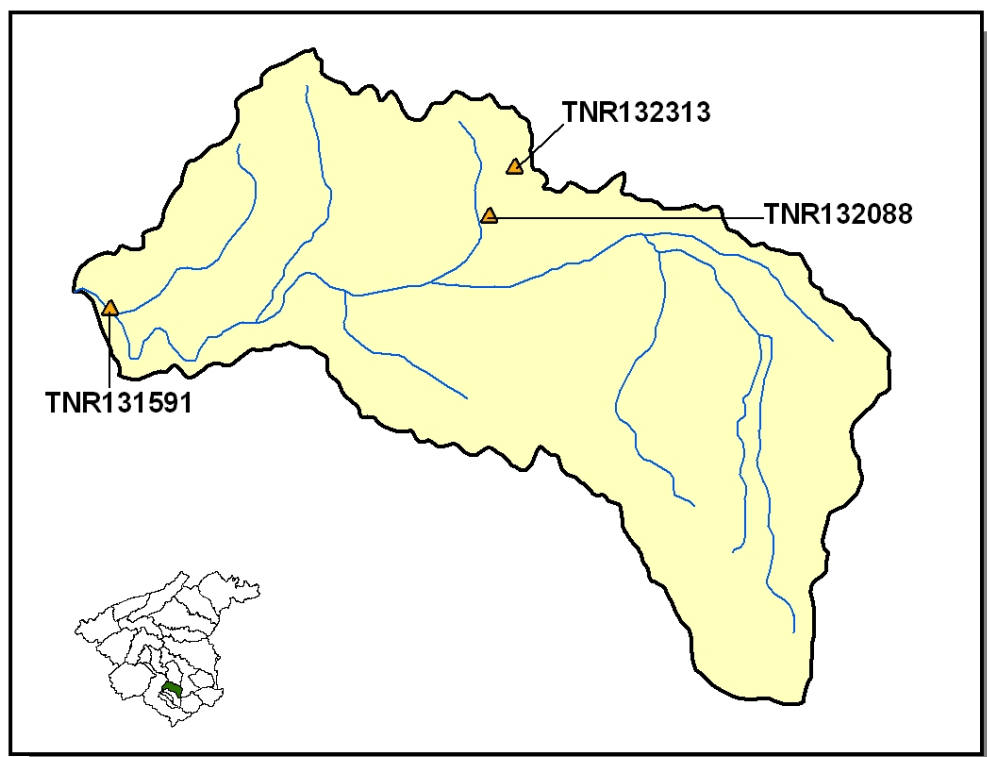


Figure 4-193. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070311. More information is provided in Appendix IV.

4.2.T.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-113. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-114. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-115. Annual Estimated Total Soil Loss in Subwatershed 060101070311.

4.2.U. 060101070312 (Waldon Creek)

4.2.U.i. General Description

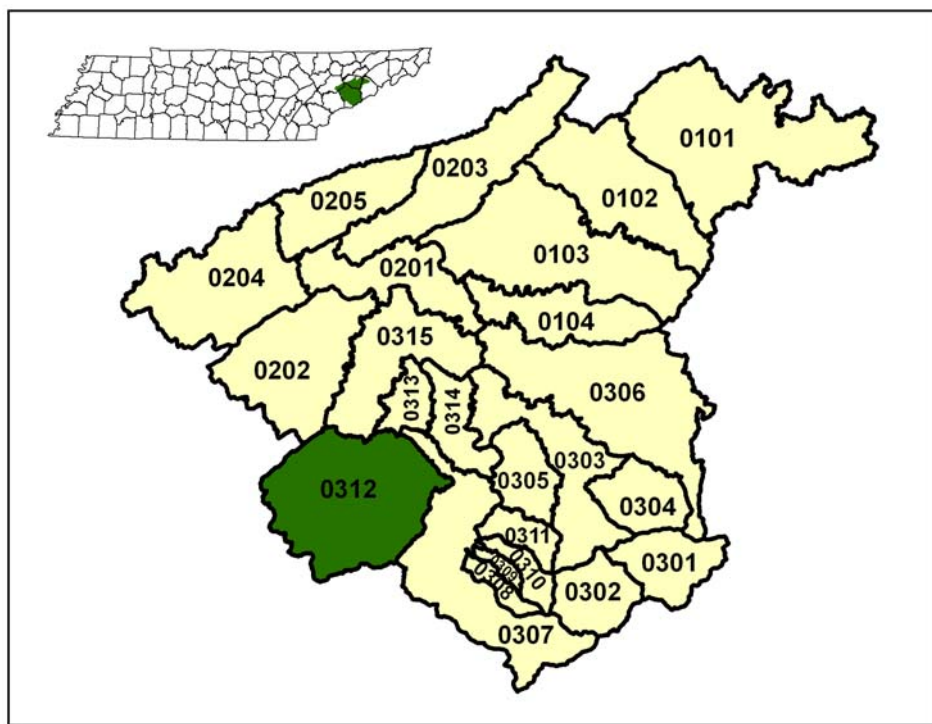


Figure 4-194. Location of Subwatershed 060101070312. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

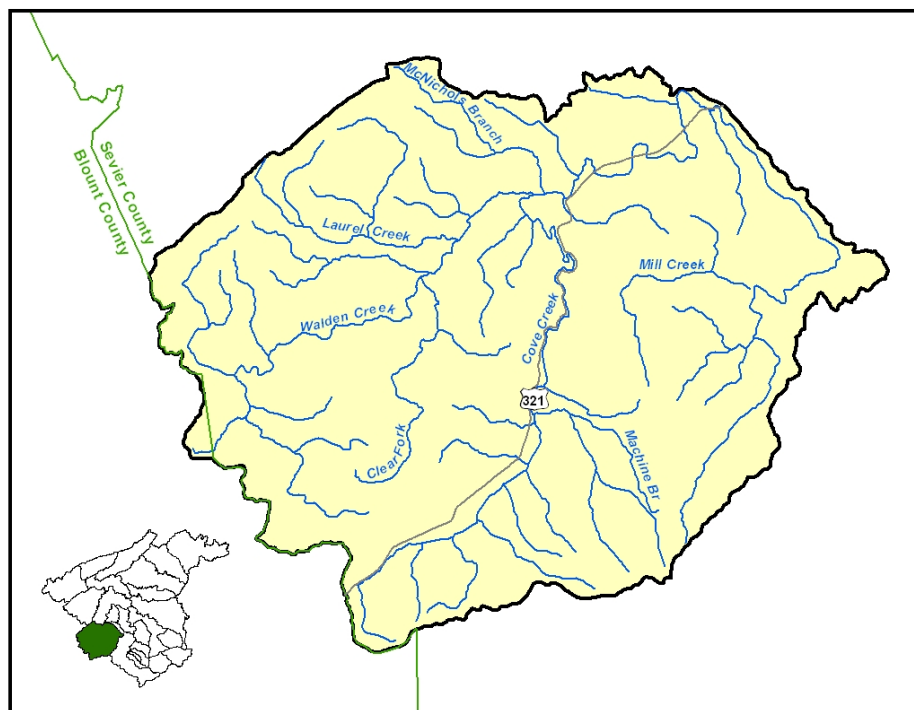


Figure 4-195. Locational Details of Subwatershed 060101070312.

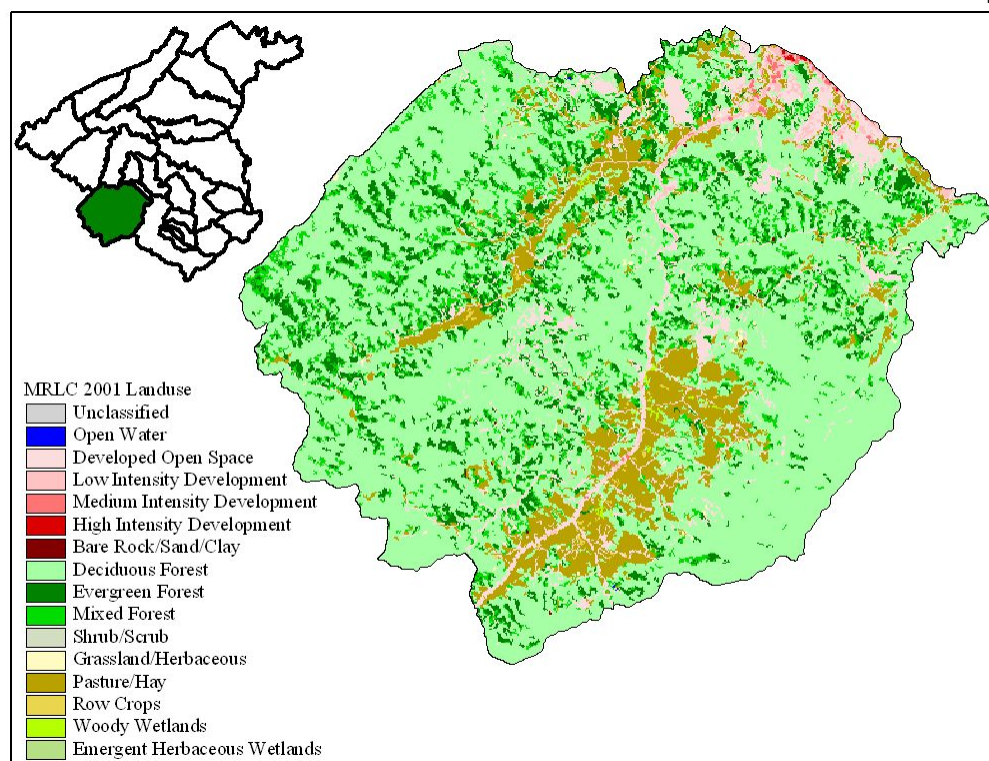


Figure 4-196. Illustration of Land Use Distribution in Subwatershed 060101070312.

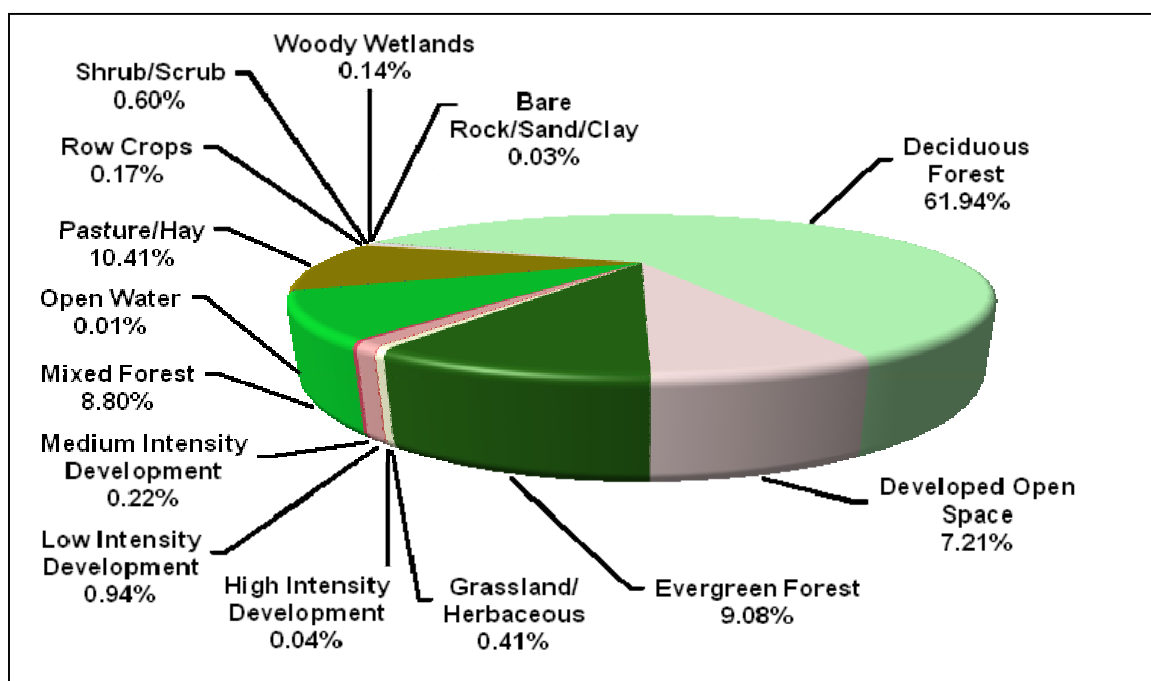


Figure 4-197. Land Use Distribution in Subwatershed 060101070312. More information is provided in Appendix IV.

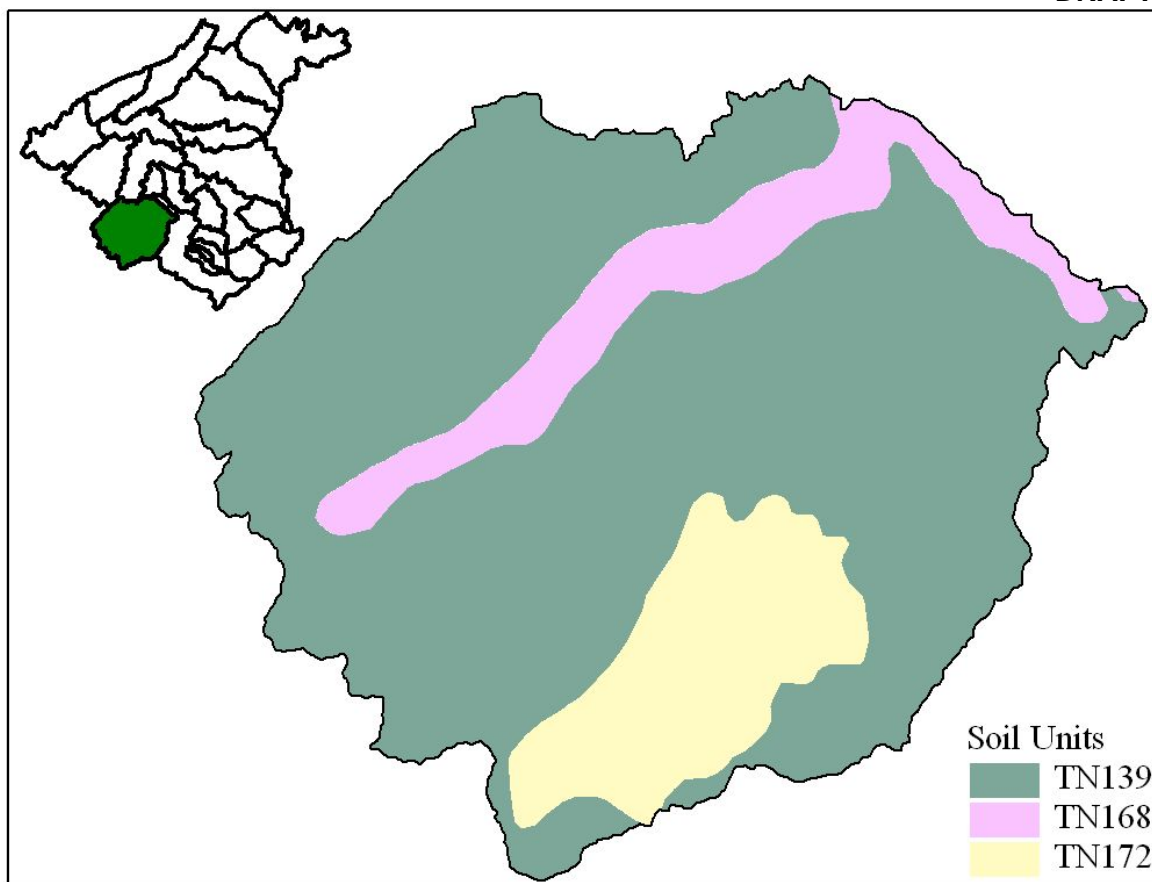


Figure 4-198. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070312.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34
TN172	0.00	B	3.87	5.13	Loam	0.26

Table 4-116. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070312. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Blount	85,969	100,218	105,823	0.4	344	401	424	23.3
Sevier	51,043	62,774	71,170	10.21	5,211	6,409	7,266	39.4
Totals	137,012	162,992	176,993		5,555	6,810	7,690	38.4

Table 4-117. Population Estimates in Subwatershed 060101070312.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Pigeon Forge	Sevier	3,168	1,353	1,000	347	6

Table 4-118. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070312.

4.2.U.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070312.

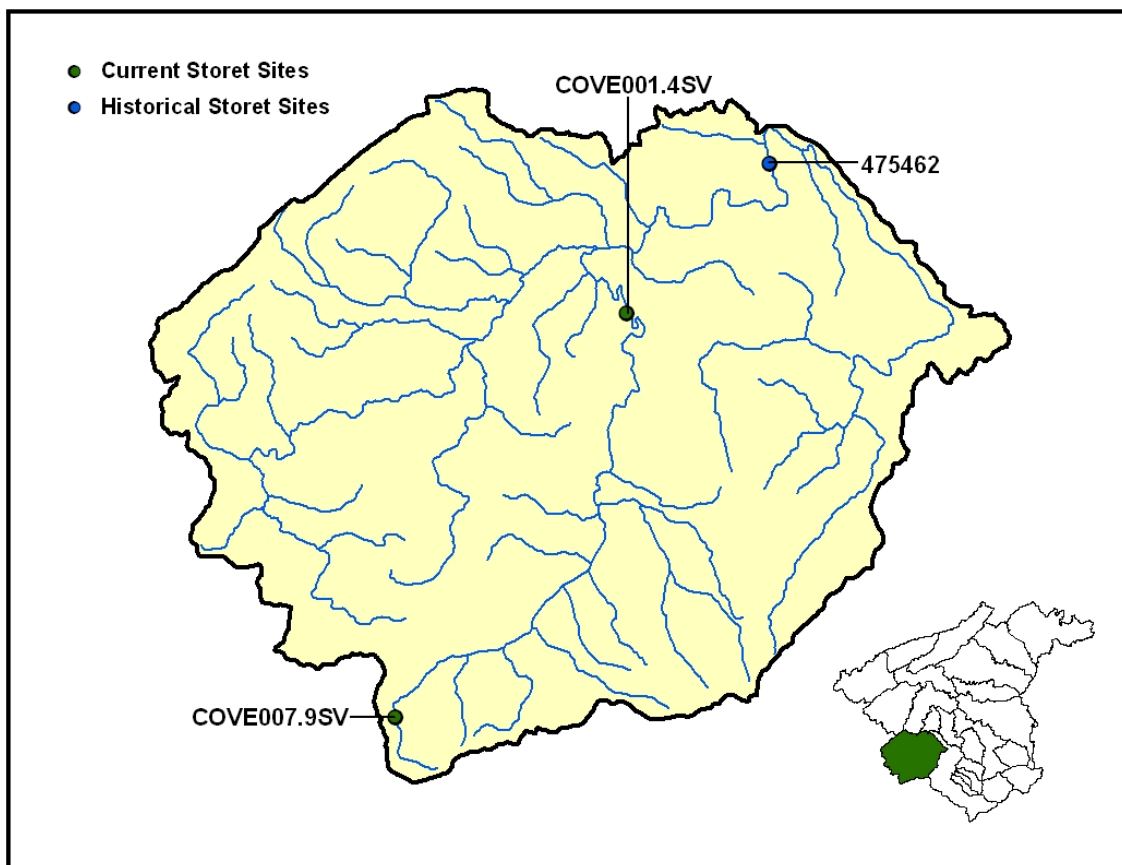


Figure 4-199. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070312. More information, including site names and locations, is provided in Appendix IV.

4.2.U.iii. Permitted Activities.

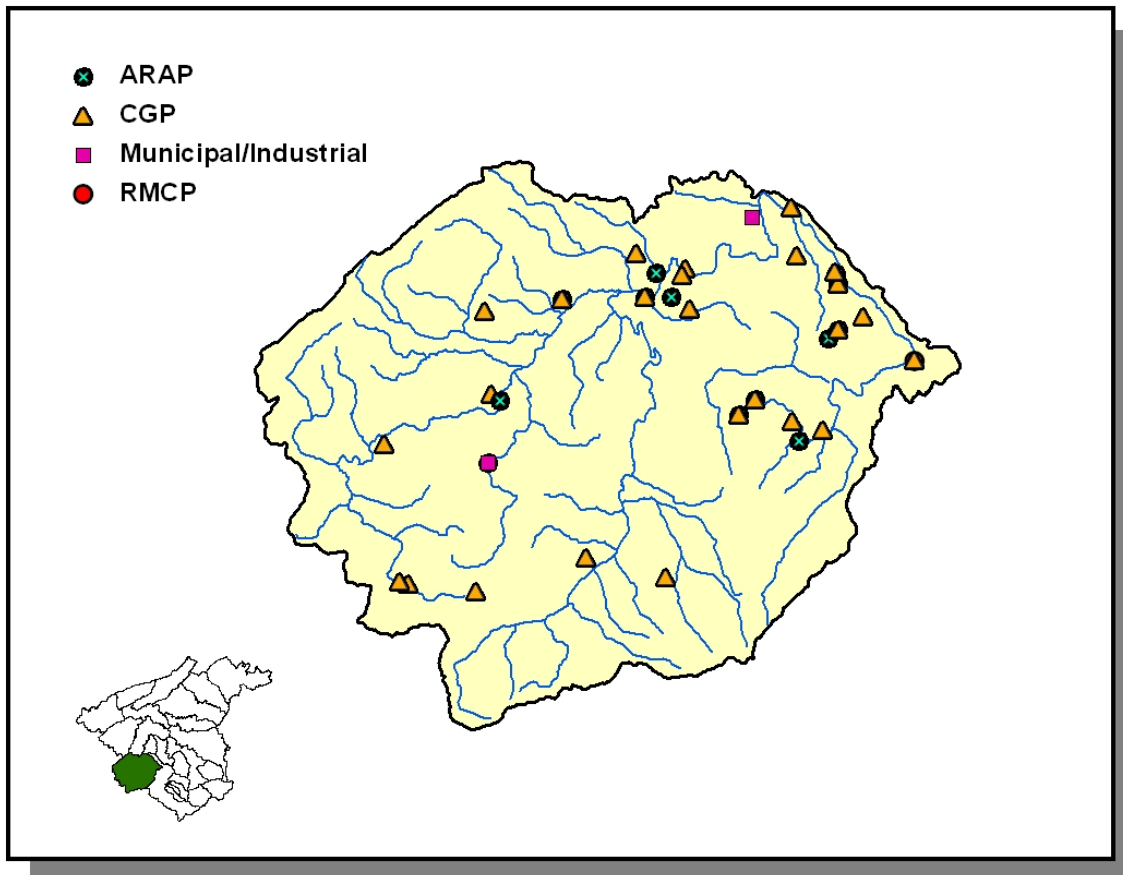


Figure 4-200. Location of Permits Issued in Subwatershed 060101070312. More information, including the names of facilities, is provided in Appendix IV.

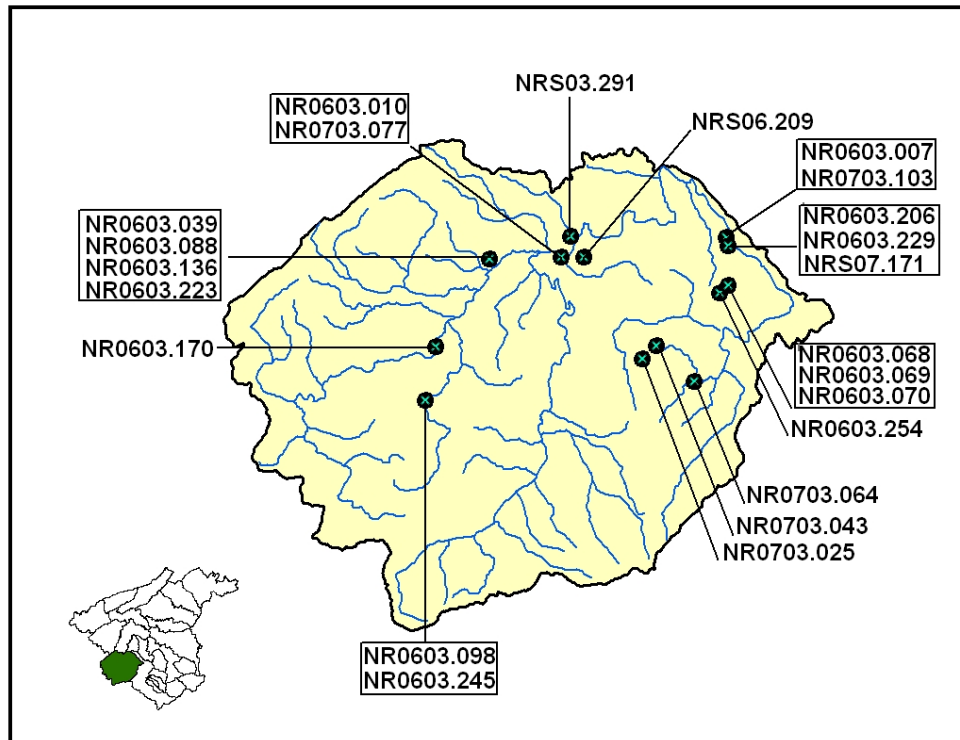


Figure 4-201. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070312. More information is provided in Appendix IV.

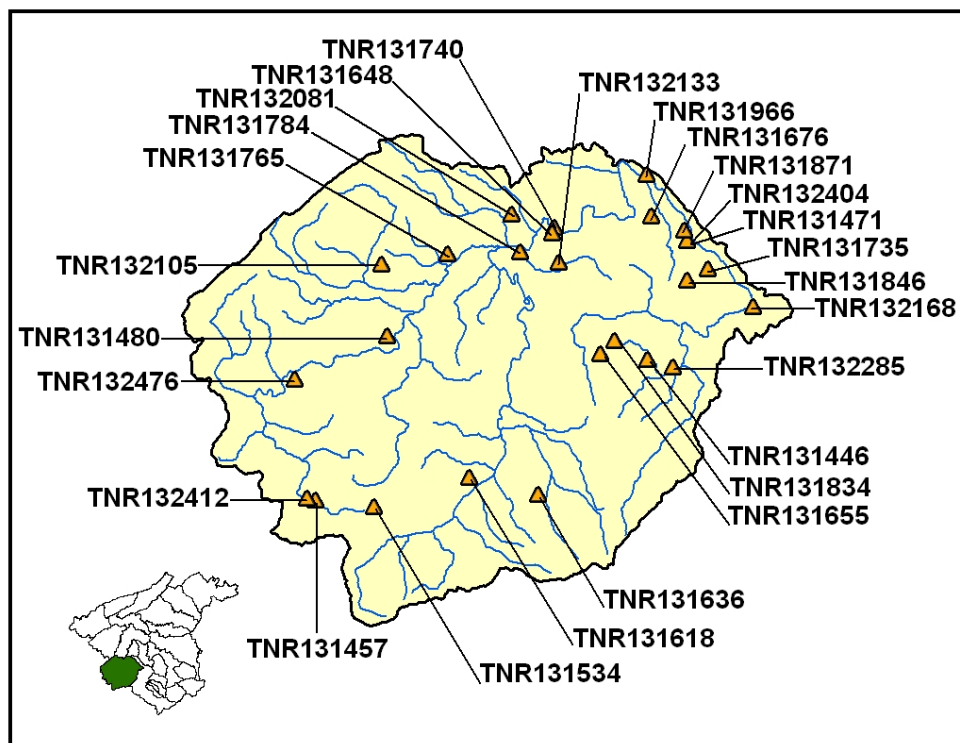


Figure 4-202. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070312. More information is provided in Appendix IV.

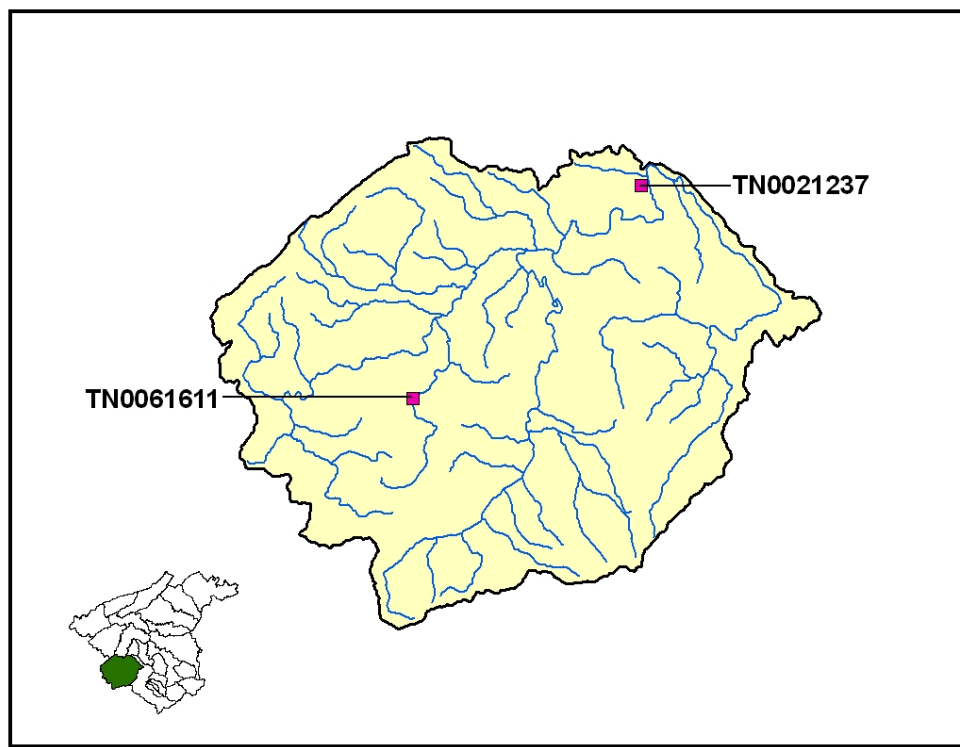


Figure 4-203. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070312. More information, including the name of the facility is provided in Appendix IV.

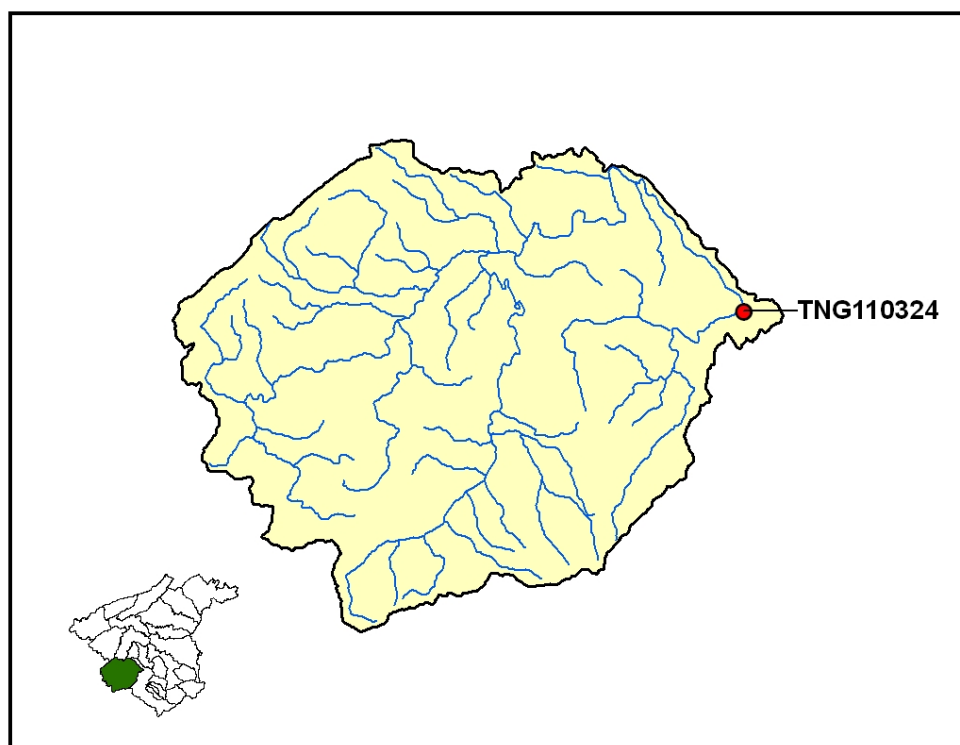


Figure 4-204. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070312. More information, including the names of facilities, is provided in Appendix IV.

4.2.U.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Blount	15,468	32,061	1,769	664	658	455
Sevier	9,816	19,013	172	26	394	234

Table 4-119. Summary of Livestock Count Estimates by County According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Blount	165.5	69.9	1.8	9.3
Sevier	254.5	127.4	0.3	0.9

Table 4-120. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.39
Corn (Row Crops)	5.50
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.46
Oats (Close Grown Cropland)	0.32
Farmsteads and Ranch Headquarters	0.22
Grass (Hayland)	0.21
Other Land in Farms (Other Far	0.14
Legume Grass (Hayland)	0.06
Tobacco (Row Crops)	16.31
Farmsteads and Ranch Headquarters	0.45

Table 4-121. Annual Estimated Total Soil Loss in Subwatershed 060101070312.

4.2.V. 060101070313 (West Prong Little Pigeon River)

4.2.V.i. General Description

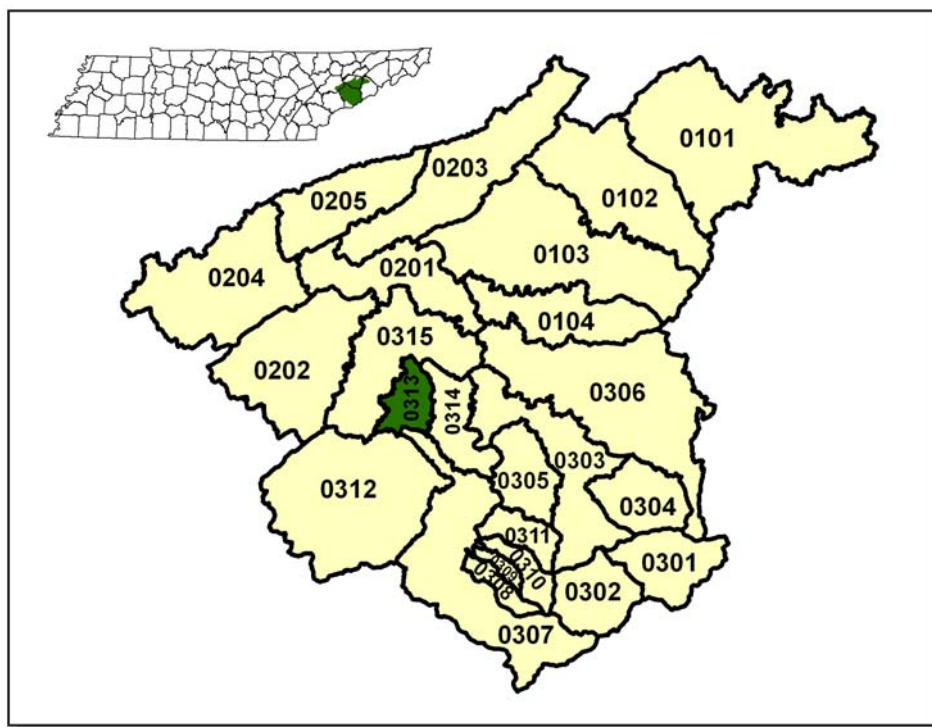


Figure 4-205. Location of Subwatershed 060101070313. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

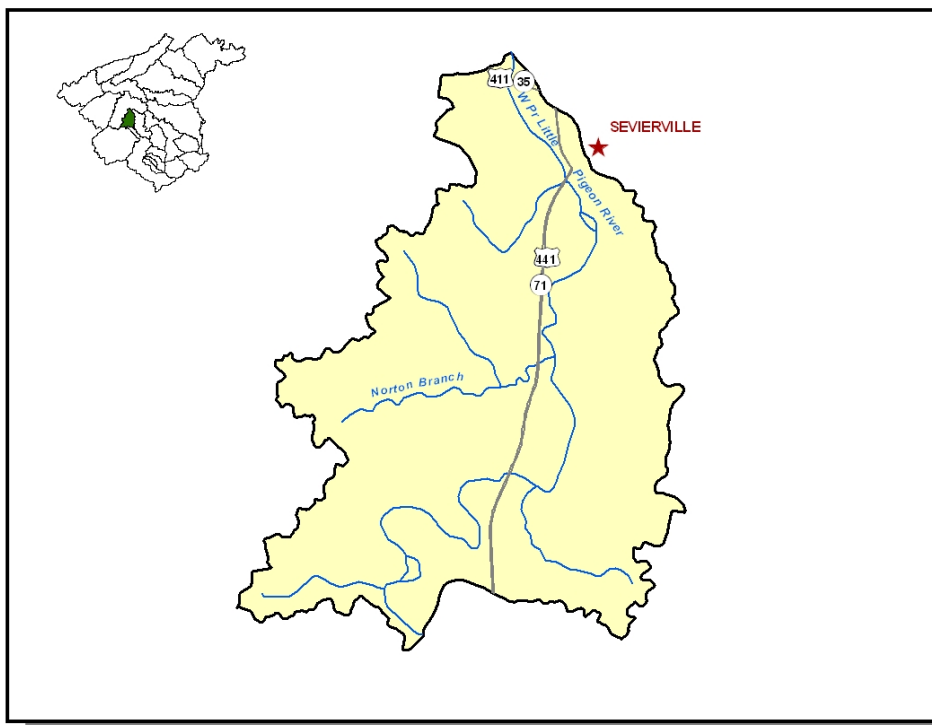


Figure 4-206. Locational Details of Subwatershed 060101070313.

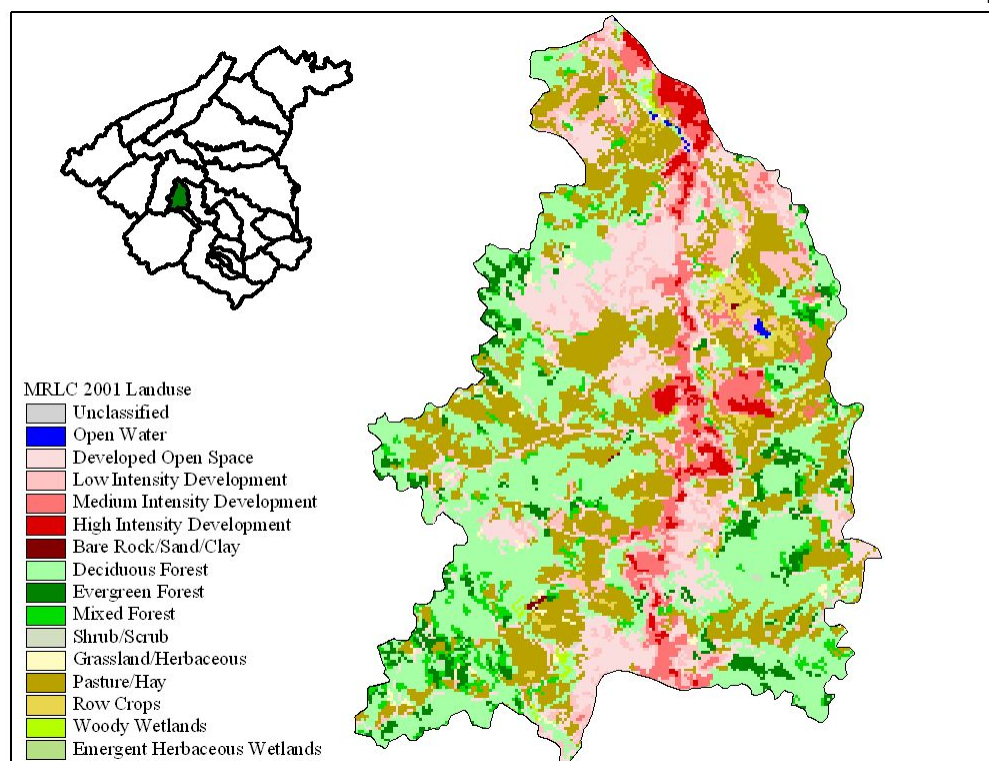


Figure 4-207. Illustration of Land Use Distribution in Subwatershed 060101070313.

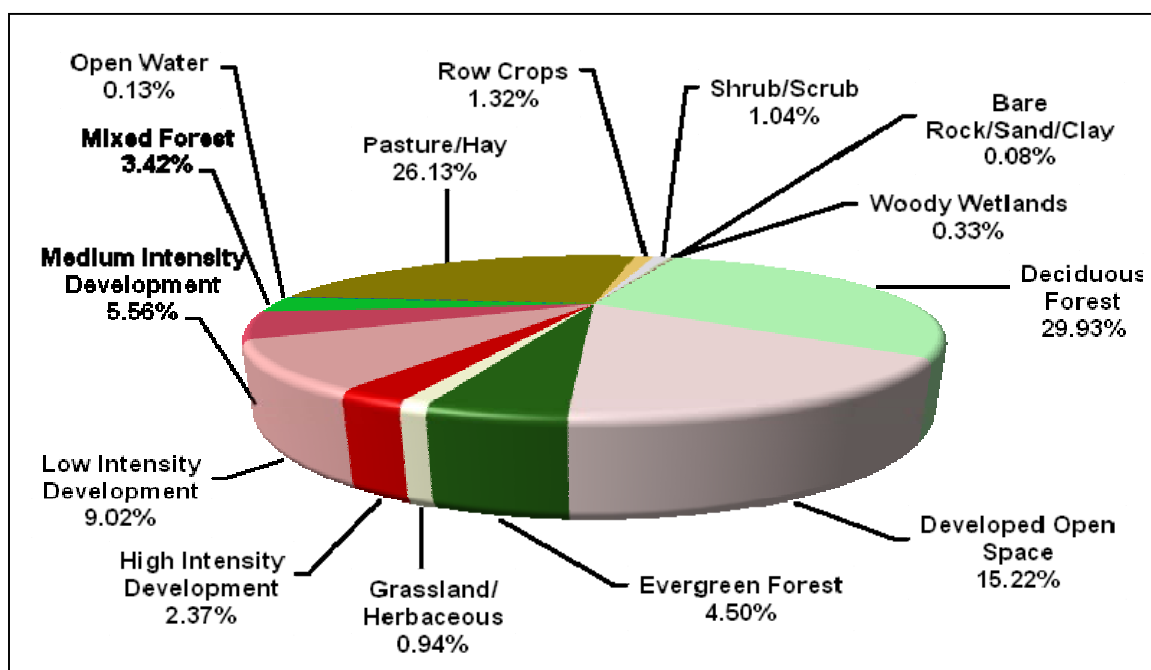


Figure 4-208. Land Use Distribution in Subwatershed 060101070313. More information is provided in Appendix IV.

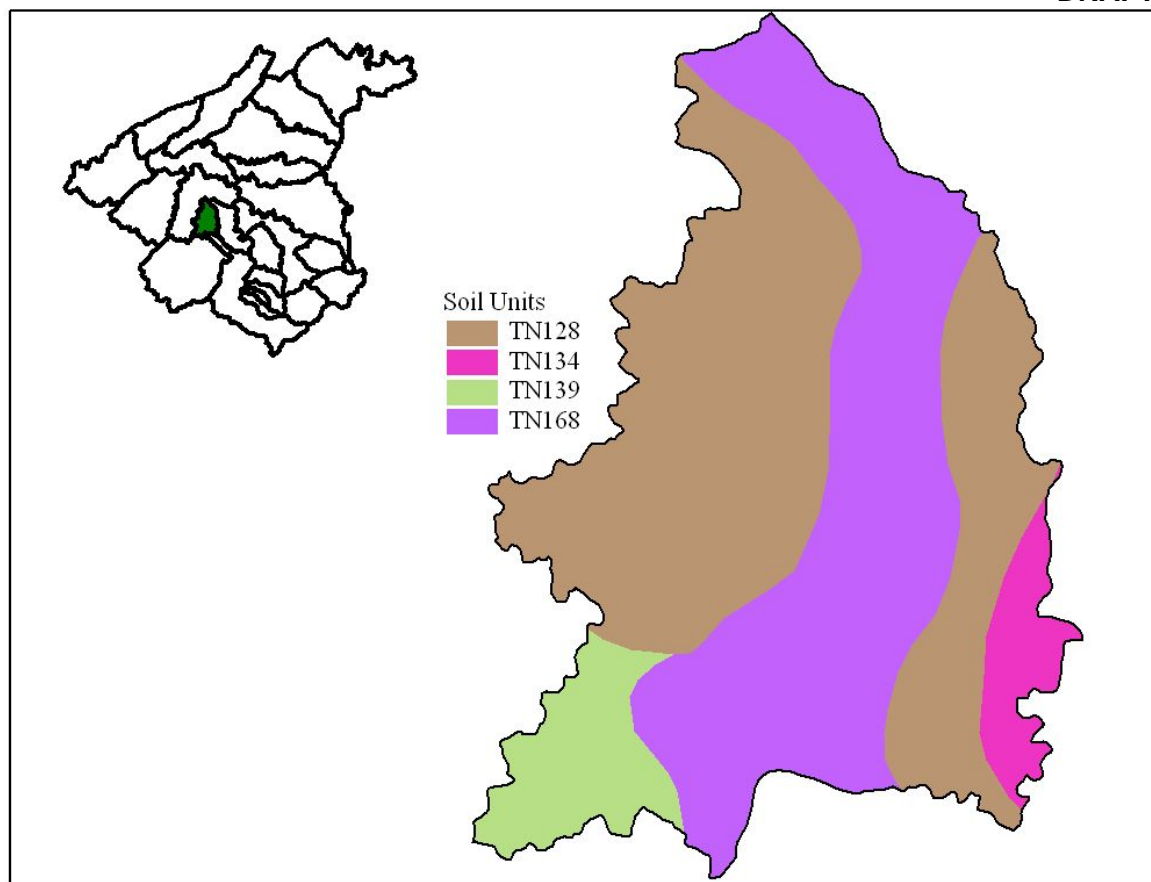


Figure 4-209. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070313.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34

Table 4-122. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070313. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sevier	51,043	62,774	71,170	1.56	794	976	1,107	39.40

Table 4-123. Population Estimates in Subwatershed 060101070313.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Pigeon Forge	Sevier	3,168	1,353	1,000	347	6
Sevierville	Sevier	7,178	3,321	2,632	686	3
Total		10,346	4,674	3,632	1,033	9

Table 4-124. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070313.

4.2.V.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070313.

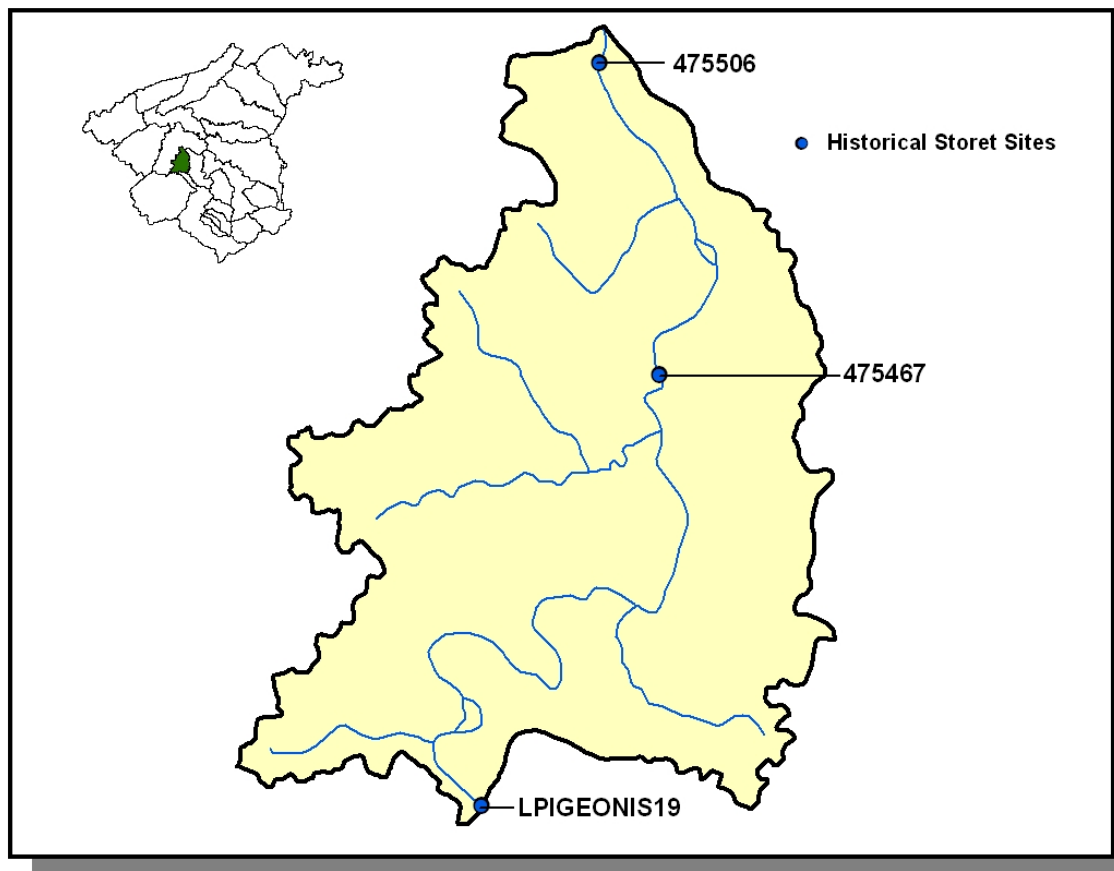


Figure 4-210. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070313. More information, including site names and locations, is provided in Appendix IV.

4.2.V.iii. Permitted Activities.

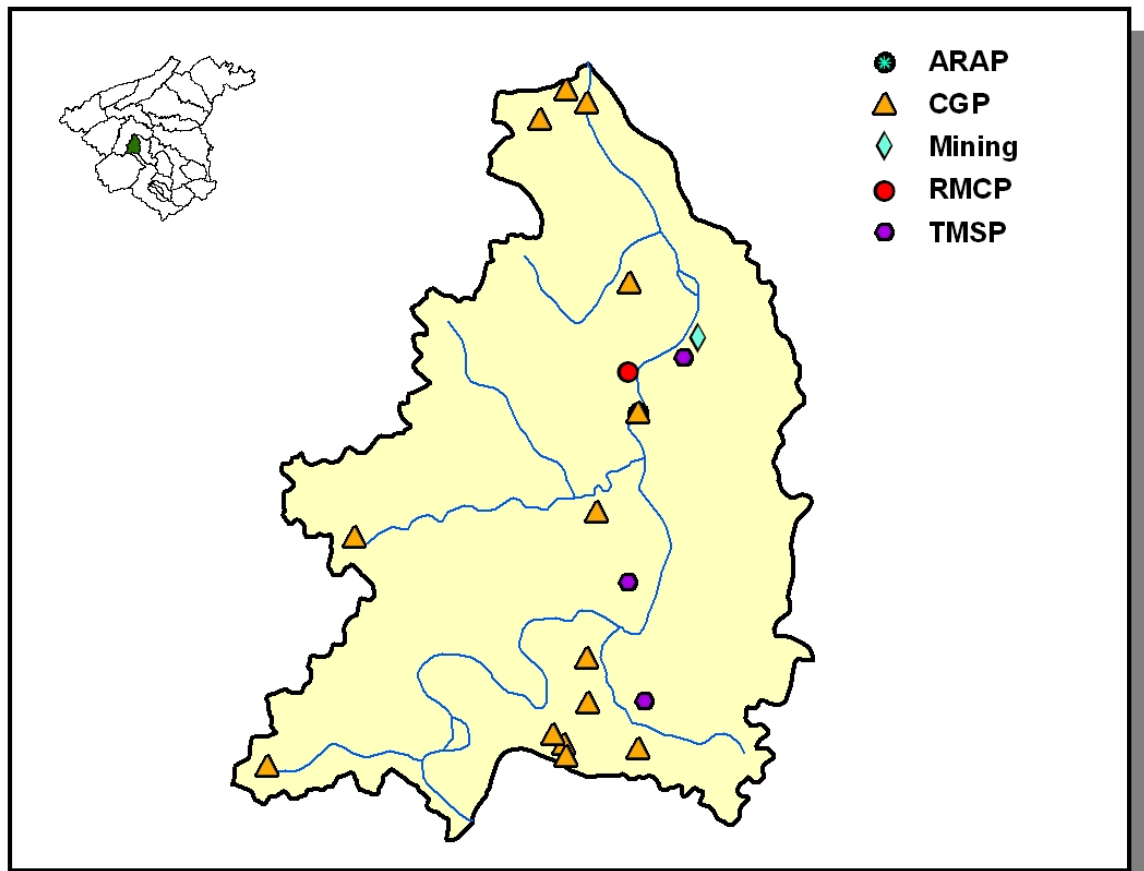


Figure 4-211. Location of Permits Issued in Subwatershed 060101070313. More information, including the names of facilities, is provided in Appendix IV.

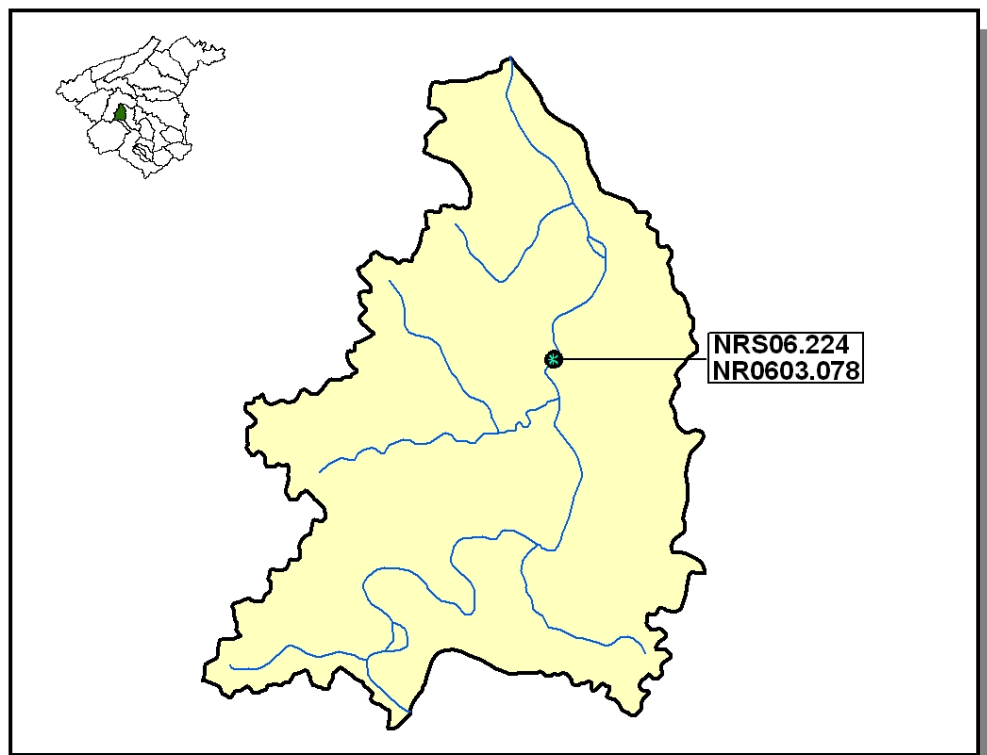


Figure 4-212. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070313. More information is provided in Appendix IV.

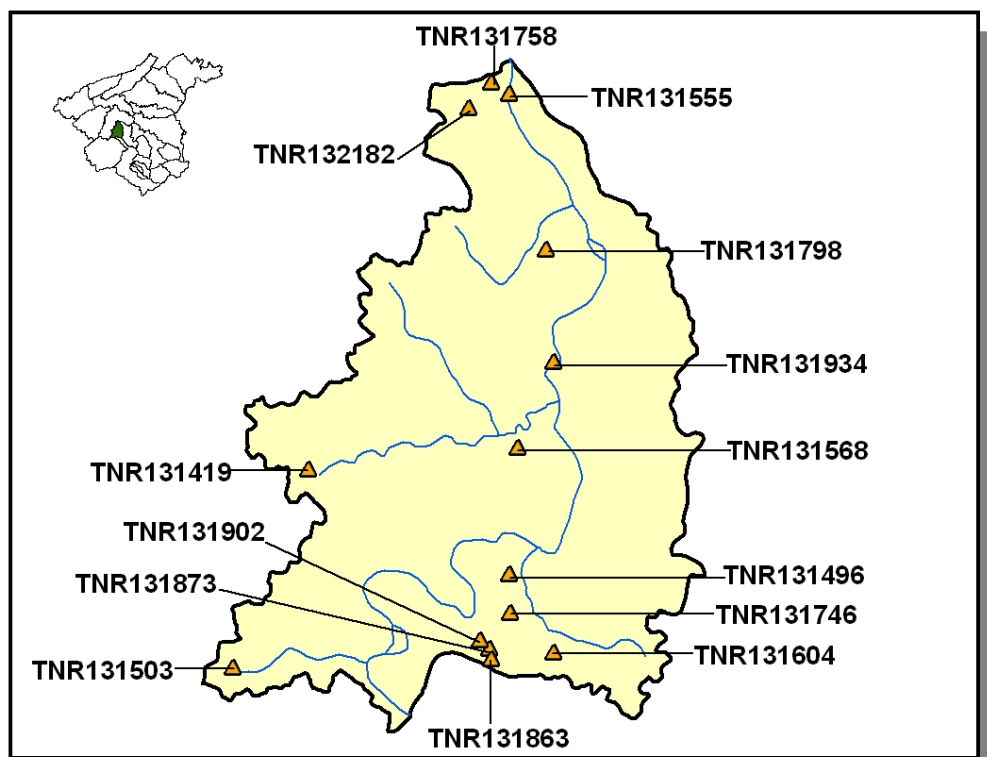


Figure 4-213. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070313. More information is provided in Appendix IV.

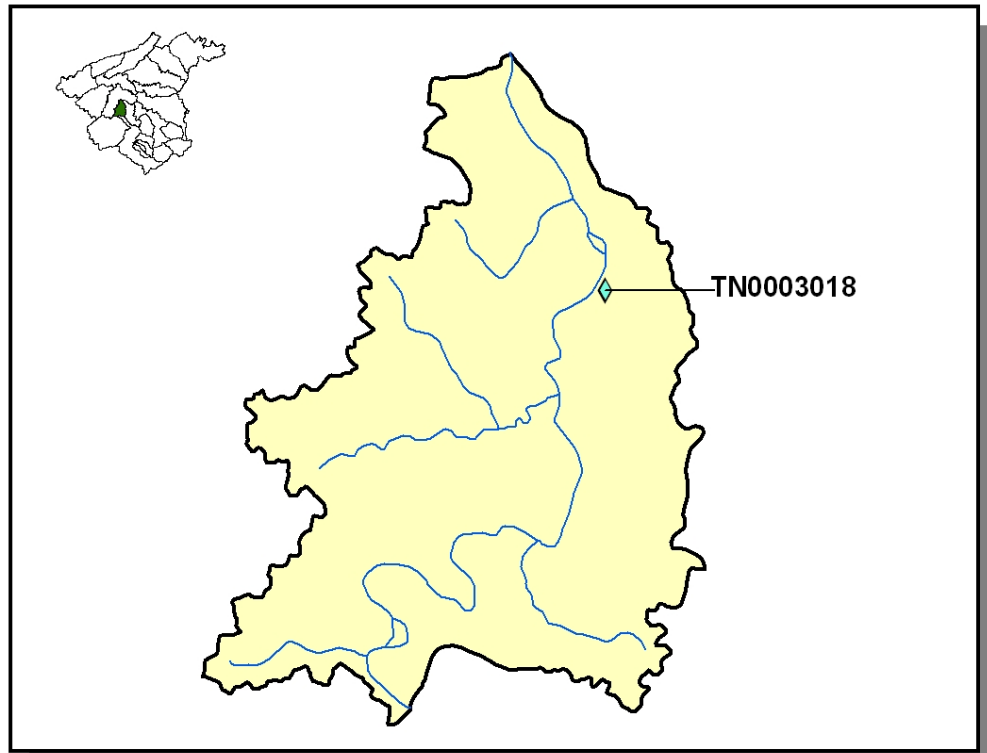


Figure 4-214. Location of permitted MINING facilities in Subwatershed 060101070313. More information is provided in Appendix IV.

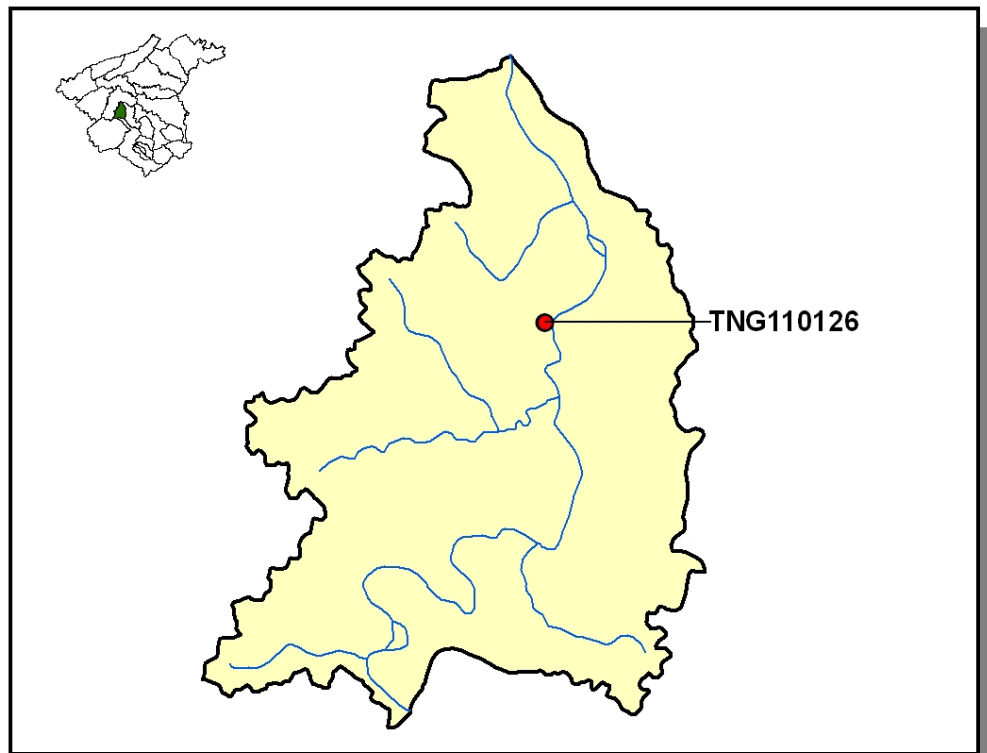


Figure 4-215. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070313. More information, including the names of facilities, is provided in Appendix IV.

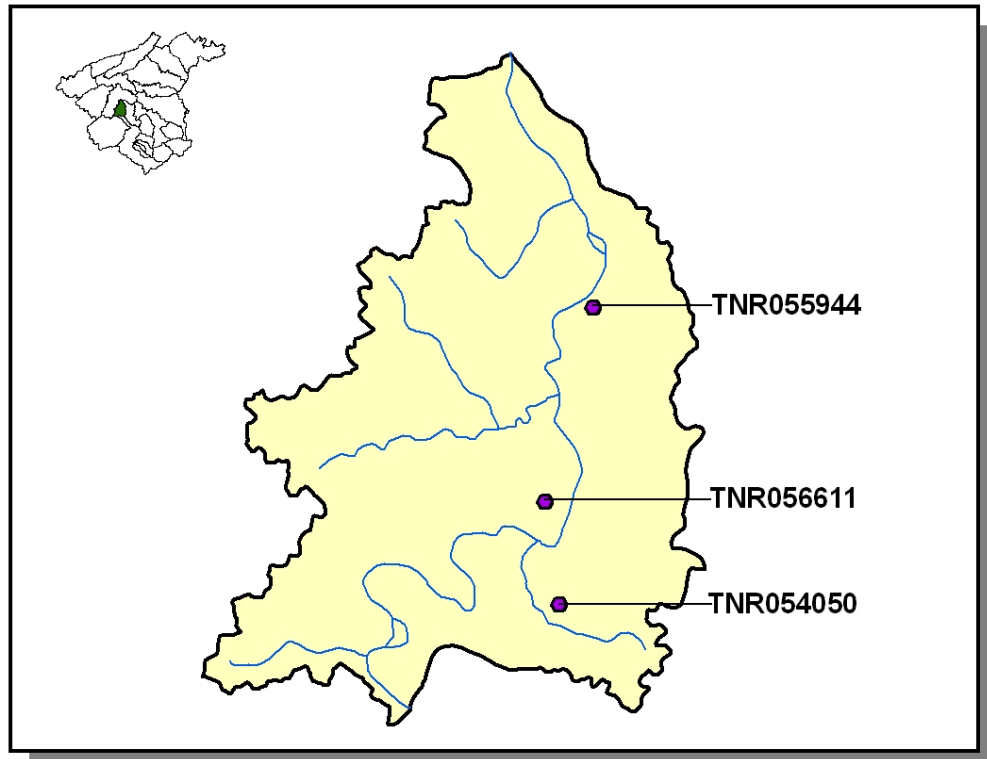


Figure 4-216. Location of TMSP (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070313. More information is provided in Appendix IV.

4.2.V.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-125. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-126. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-127. Annual Estimated Total Soil Loss in Subwatershed 060101070313.

4.2.W. 060101070314 (Middle Creek)

4.2.W.i. General Description

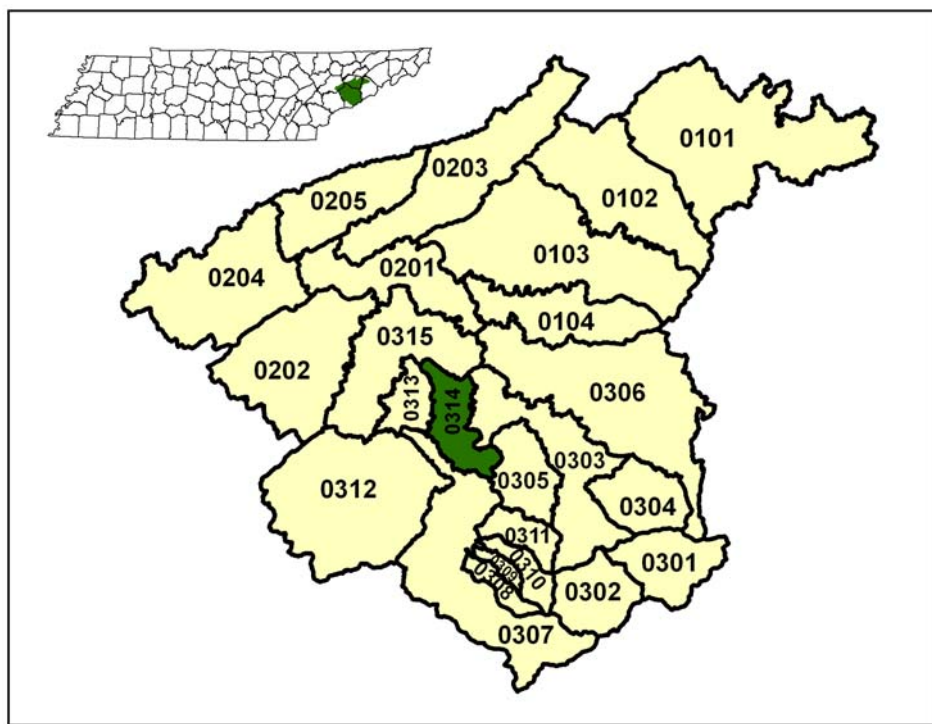


Figure 4-217. Location of Subwatershed 060101070314. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

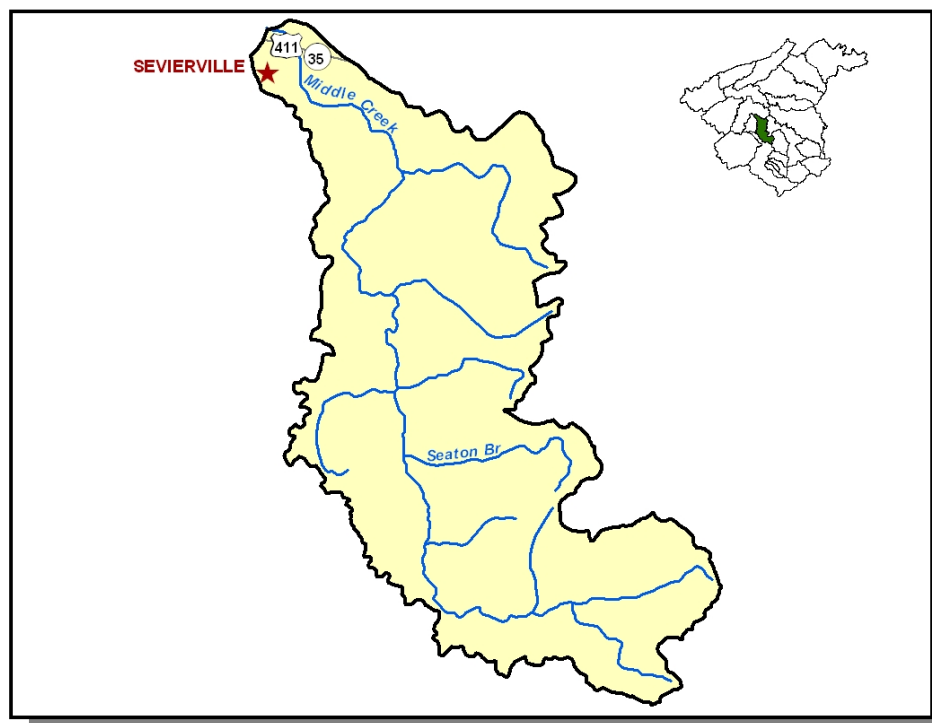


Figure 4-218. Locational Details of Subwatershed 060101070314.

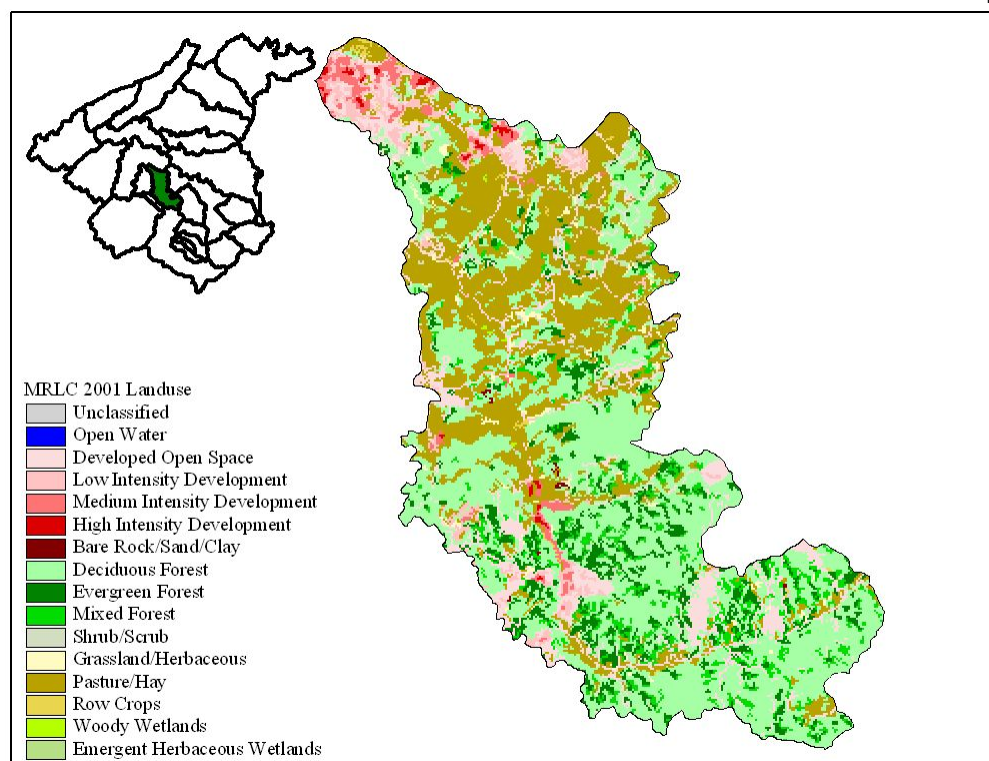


Figure 4-219. Illustration of Land Use Distribution in Subwatershed 060101070314.

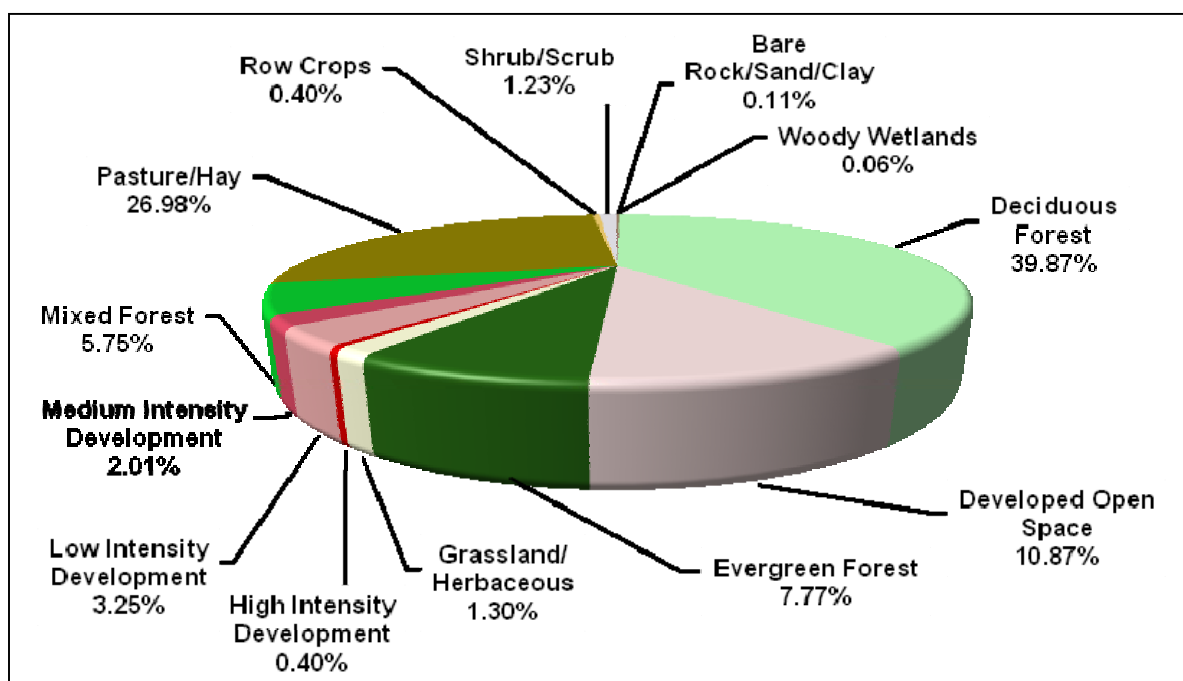


Figure 4-220. Land Use Distribution in Subwatershed 060101070314. More information is provided in Appendix IV.

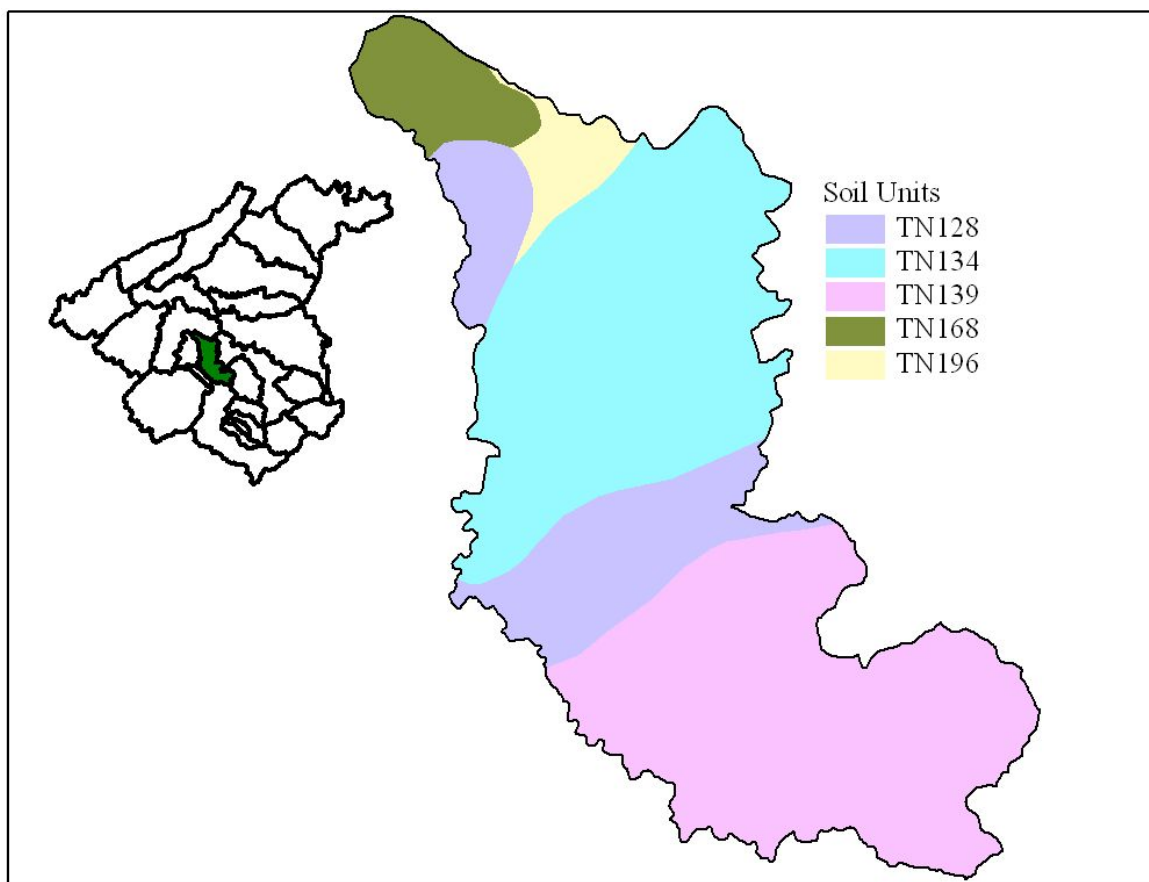


Figure 4-221. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070314.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN168	0.00	C	1.28	5.65	Loam	0.34
TN196	13.00	C	1.61	5.39	Loam	0.31

Table 4-128. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070314. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			% of County in Watershed	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sevier	51,043	62,774	71,170	2.51	1,281	1,576	1,787	39.5

Table 4-129. Population Estimates in Subwatershed 060101070314.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Pigeon Forge	Sevier	3,168	1,353	1,000	347	6
Sevierville	Sevier	7,178	3,321	2,632	686	3
Total		10,346	4,674	3,632	1,033	9

Table 4-130. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070314.

4.2.W.ii. USGS Gaging Stations and STORET Sites

There are no USGS continuous record gaging stations located in subwatershed 060101070314.

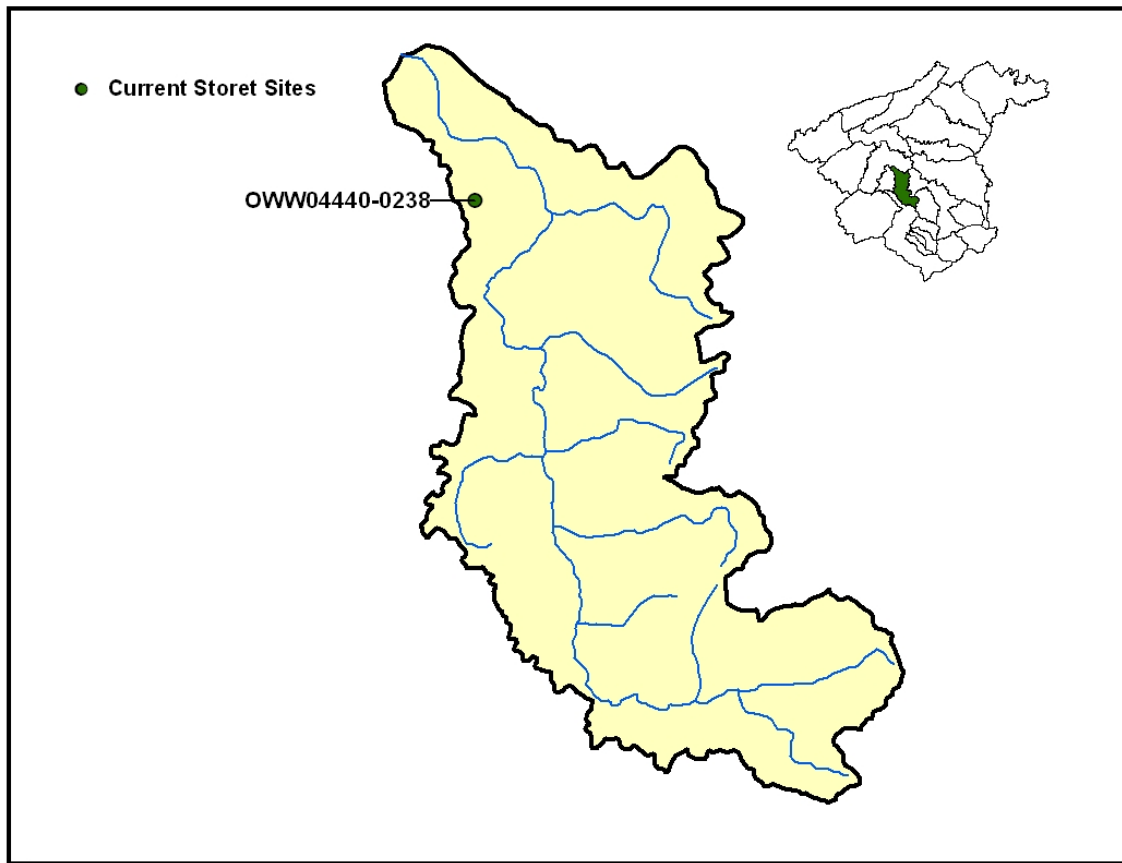


Figure 4-222. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070314. More information, including site names and locations, is provided in Appendix IV.

4.2.W.iii. Permitted Activities.

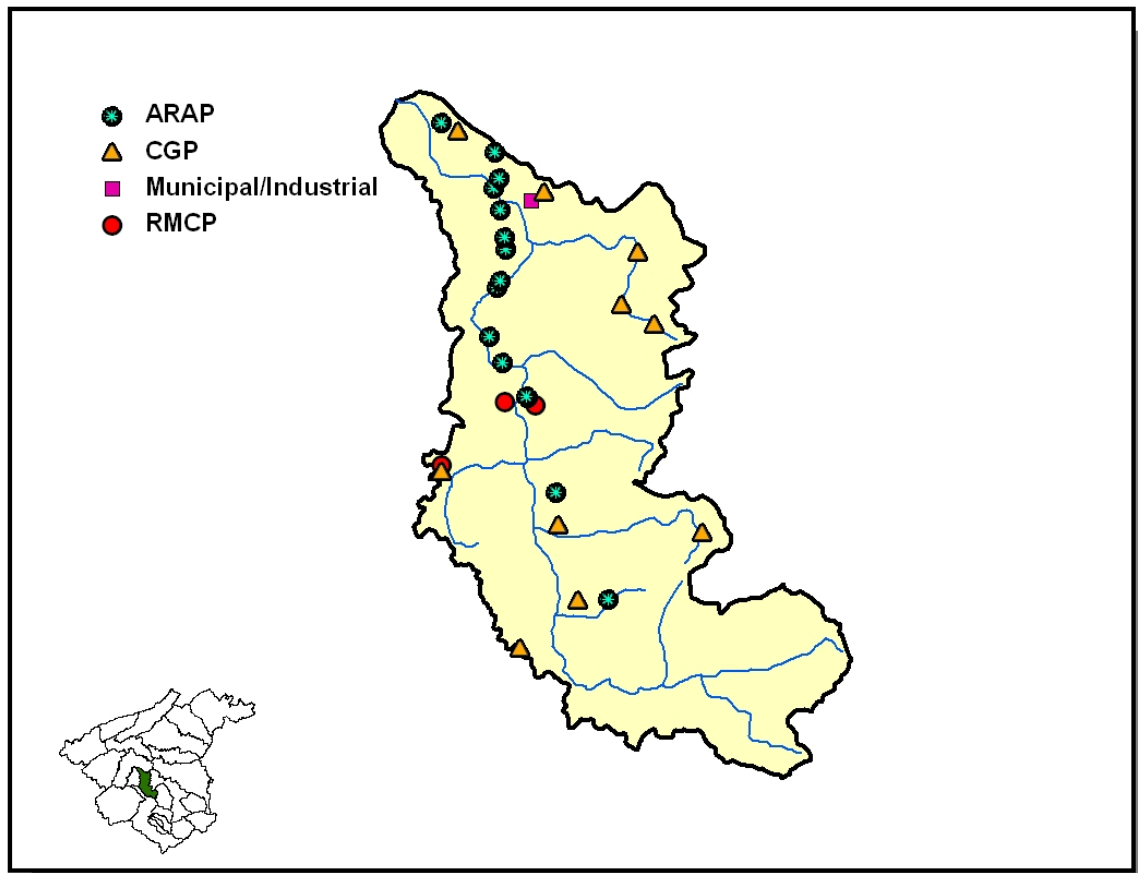


Figure 4-223. Location of Permits Issued in Subwatershed 060101070314. More information, including the names of facilities, is provided in Appendix IV.

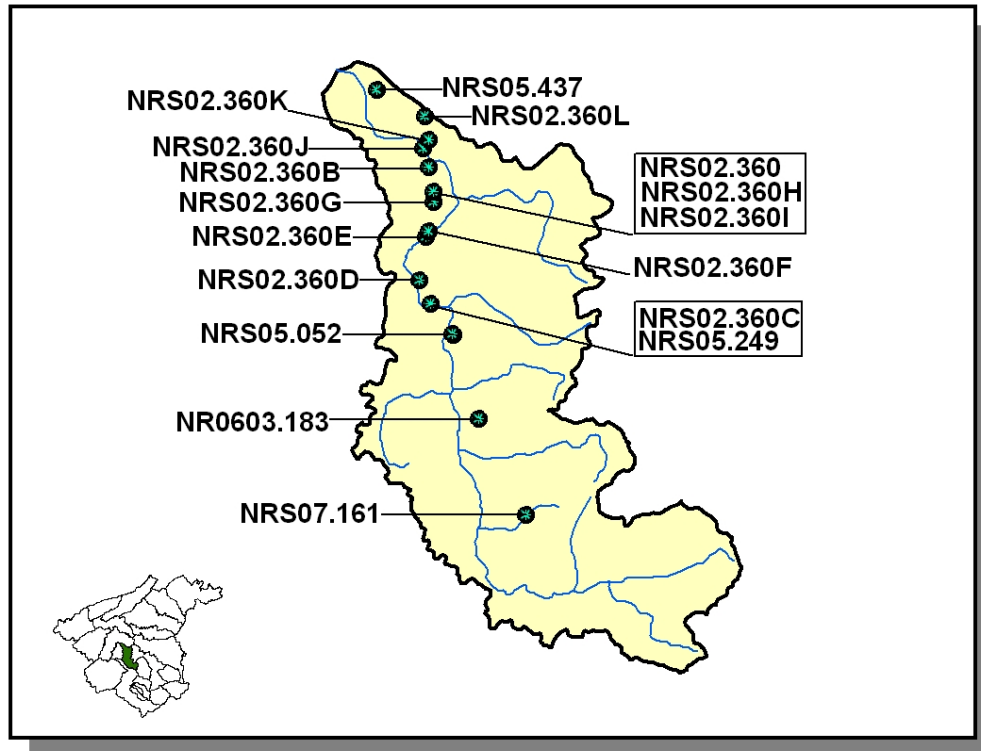


Figure 4-224. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070314. More information is provided in Appendix IV.

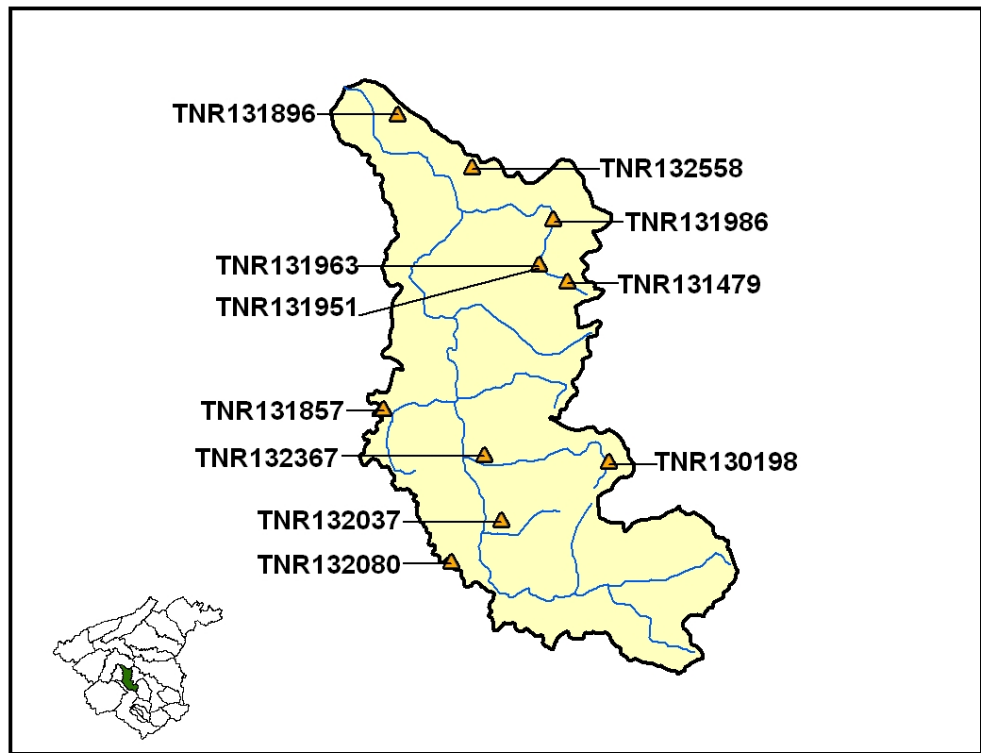


Figure 4-225. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070314. More information is provided in Appendix IV.

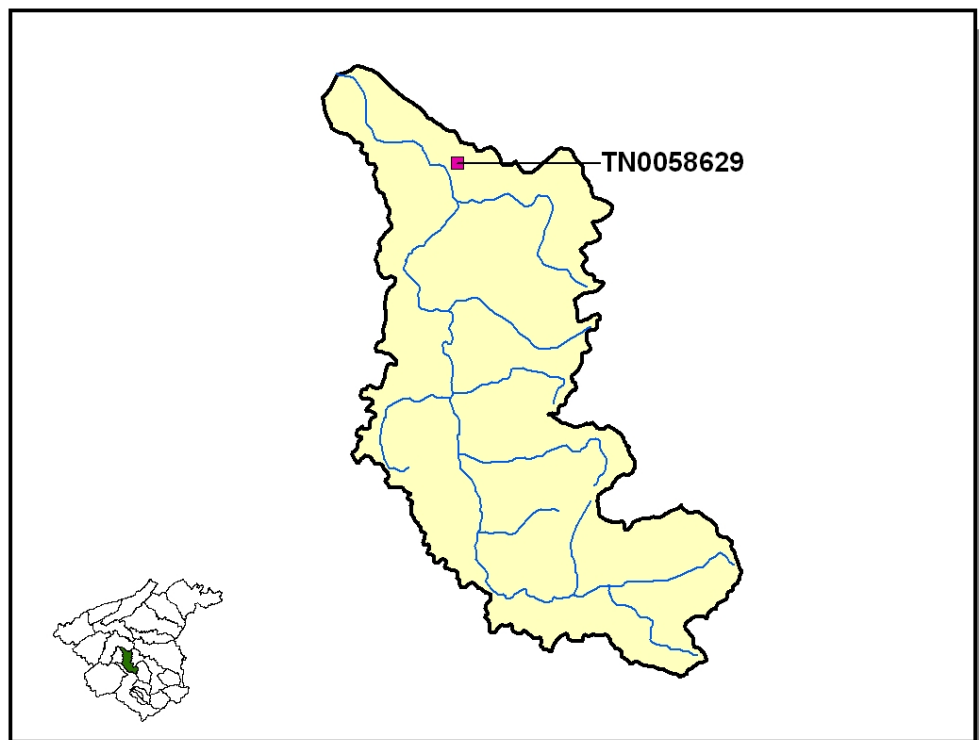


Figure 4-226. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070314. More information, including the name of the facility is provided in Appendix IV.

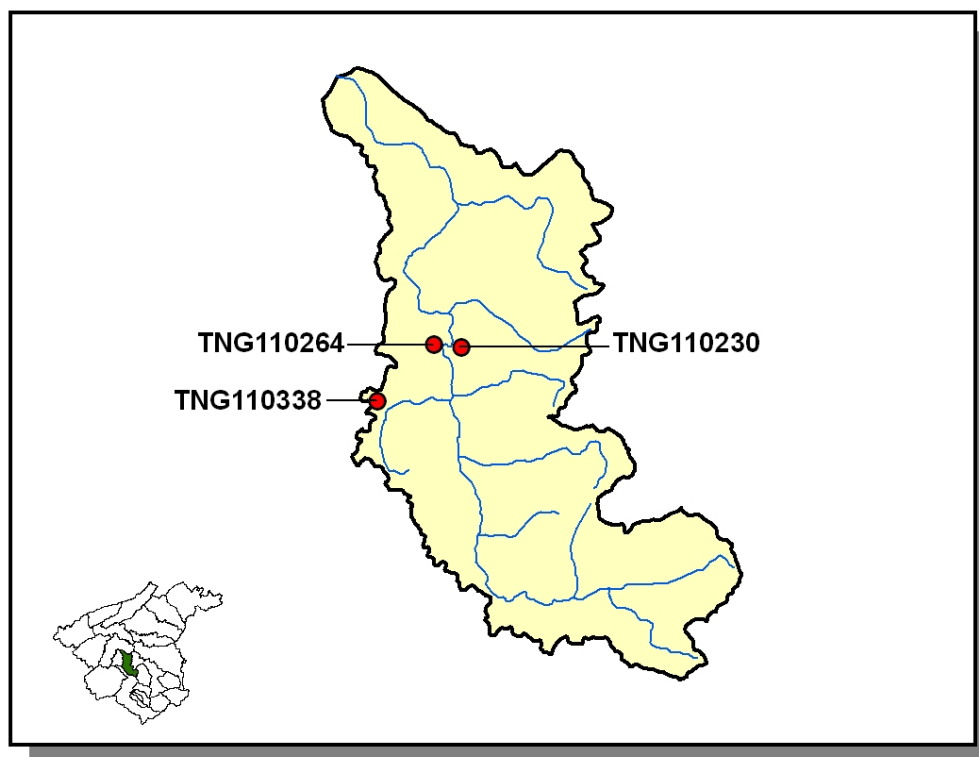


Figure 4-227. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070314. More information, including the names of facilities, is provided in Appendix IV.

4.2.W.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-131. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-132. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pastureland)	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquarters	0.22
Legume Grass (Hayland)	0.06

Table 4-133. Annual Estimated Total Soil Loss in Subwatershed 060101070314.

4.2.X. 060101070315 (Little Pigeon River, Lower)

4.2.X.i. General Description

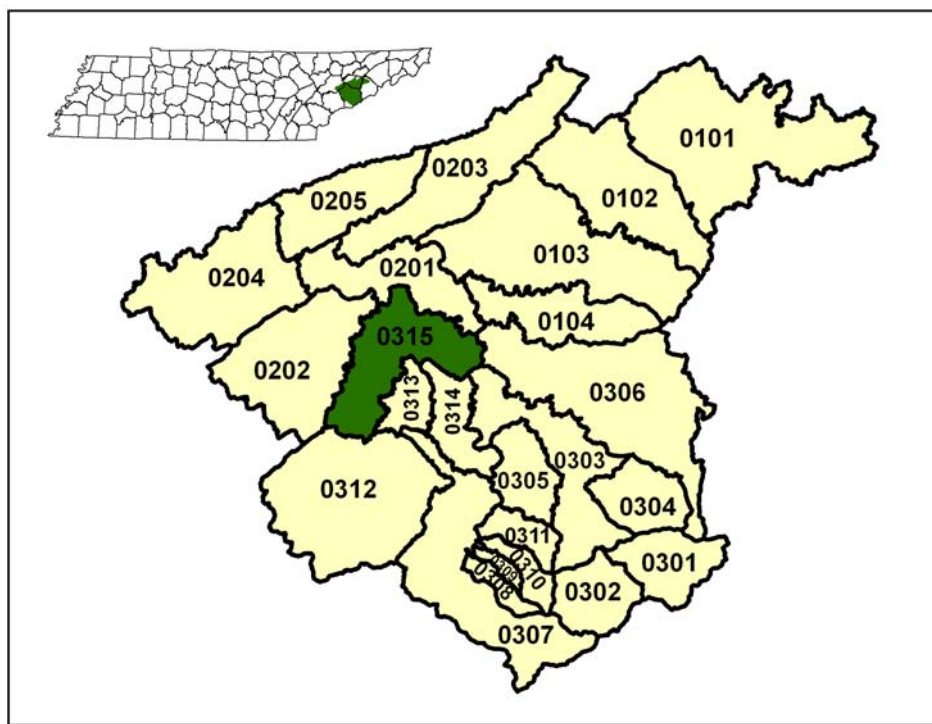


Figure 4-228. Location of Subwatershed 060101070315. All Lower French Broad River HUC-12 subwatershed boundaries are shown for reference.

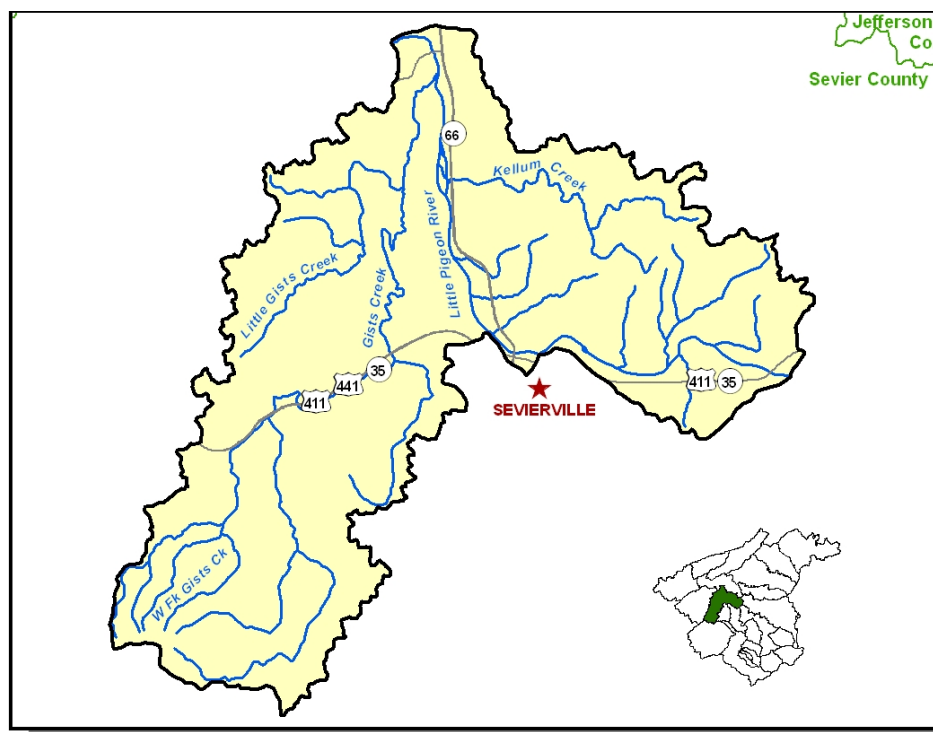


Figure 4-229. Locational Details of Subwatershed 060101070315.

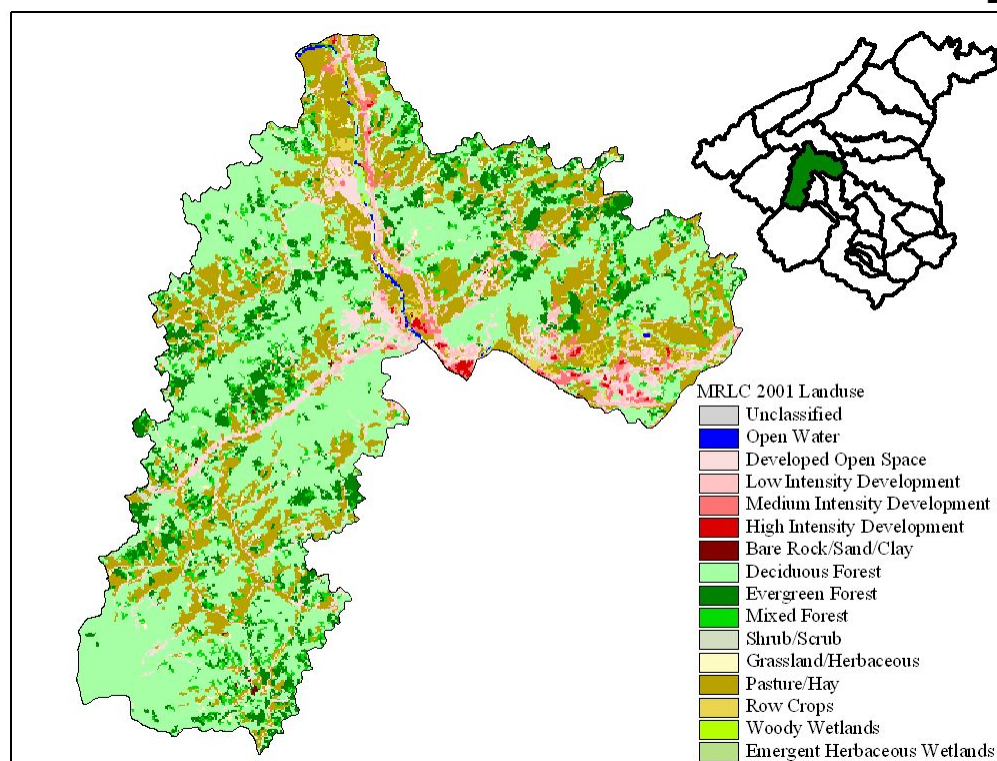


Figure 4-230. Illustration of Land Use Distribution in Subwatershed 060101070315.

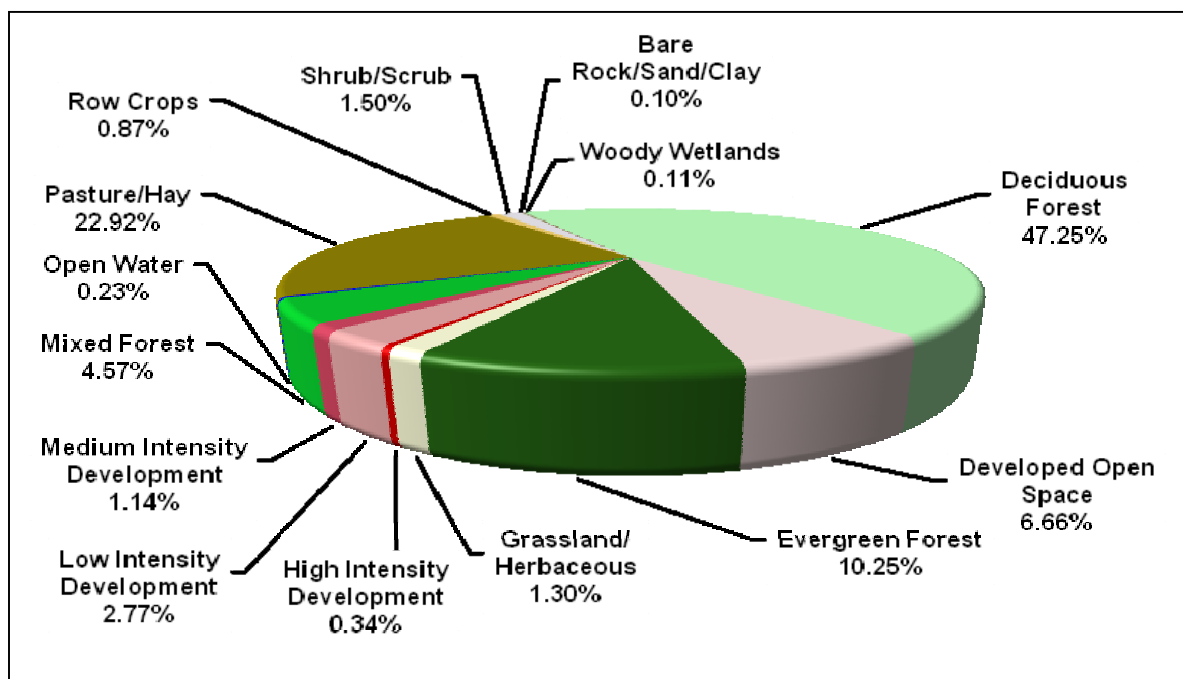


Figure 4-231. Land Use Distribution in Subwatershed 060101070315. More information is provided in Appendix IV.

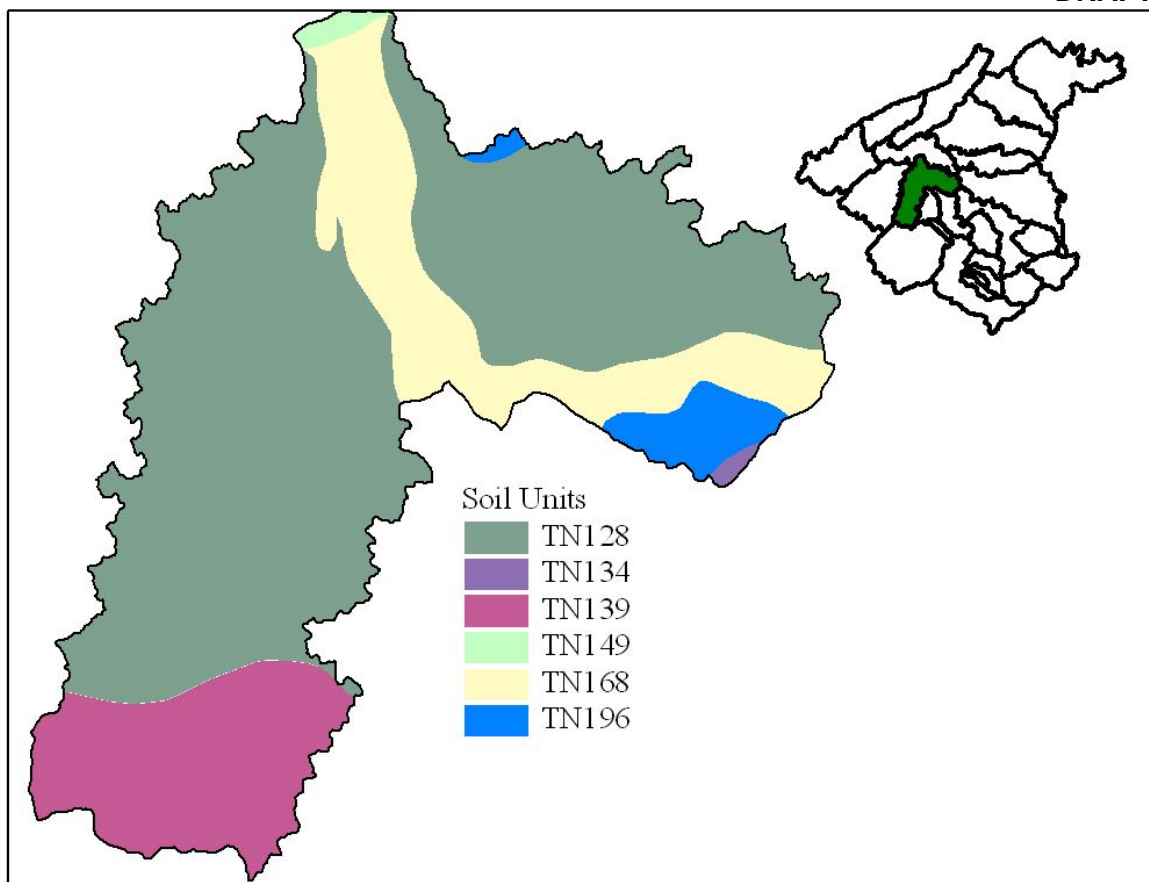


Figure 4-232. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070315.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN128	0.00	C	1.30	6.53	Clay Loam	0.26
TN134	0.00	B	1.38	5.18	Loam	0.31
TN139	0.00	C	11.84	4.82	Loam	0.20
TN149	1.00	B	1.29	5.01	Loam	0.30
TN168	0.00	C	1.28	5.65	Loam	0.34
TN196	13.00	C	1.61	5.39	Loam	0.31

Table 4-134. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101070315. The definition of "Hydrologic Group" is provided in Appendix IV.

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	% of County in Watershed	1990	1997	2000	% Change (1990-2000)
Sevier	51,043	62,774	71,170	5.82	2,968	3,650	4,139	39.50

Table 4-135. Population Estimates in Subwatershed 060101070315.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Sevierville	Sevier	7,178	3,321	2,632	686	3

Table 4-136. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101070315.

4.2.X.ii. USGS Gaging Stations and STORET Sites

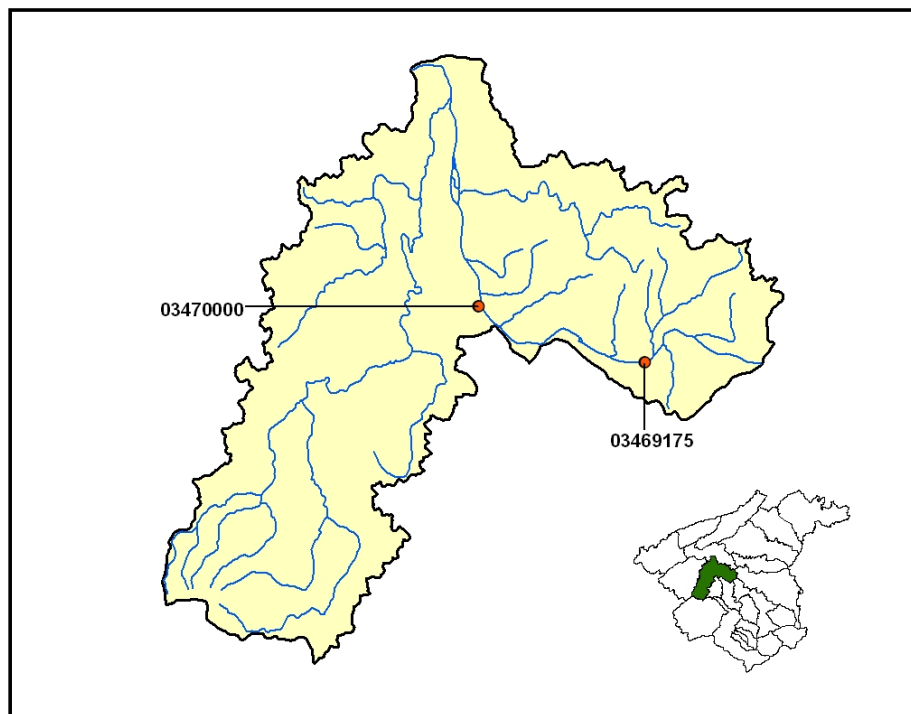


Figure 4-233. Location of USGS Continuous Record Gaging Stations in Subwatershed 060101070315. More information is provided in Appendix IV.

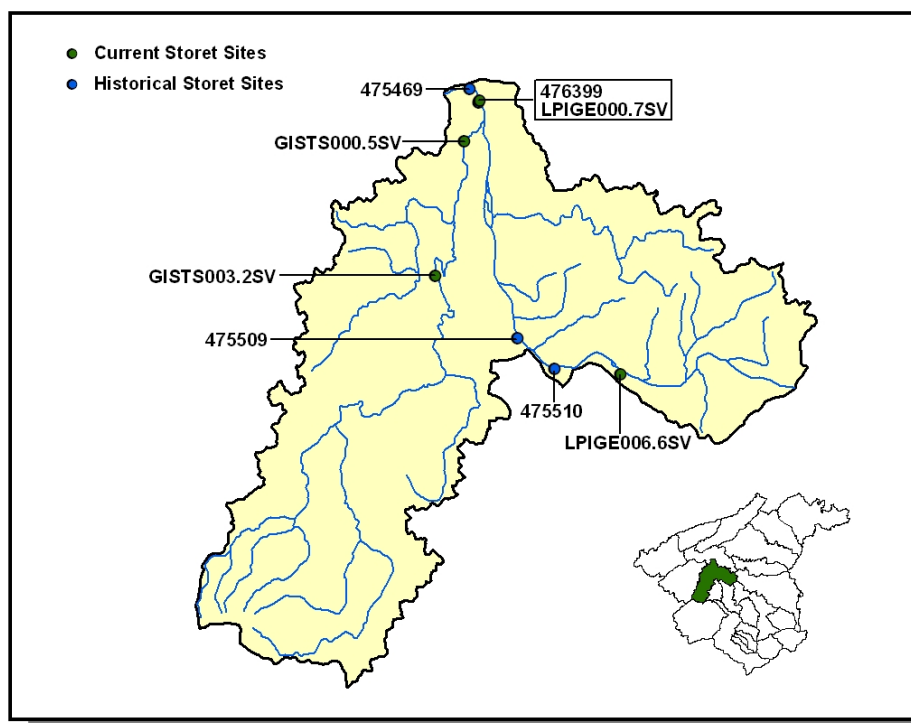


Figure 4-234. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101070315. More information, including site names and locations, is provided in Appendix IV.

4.2.X.iii. Permitted Activities.

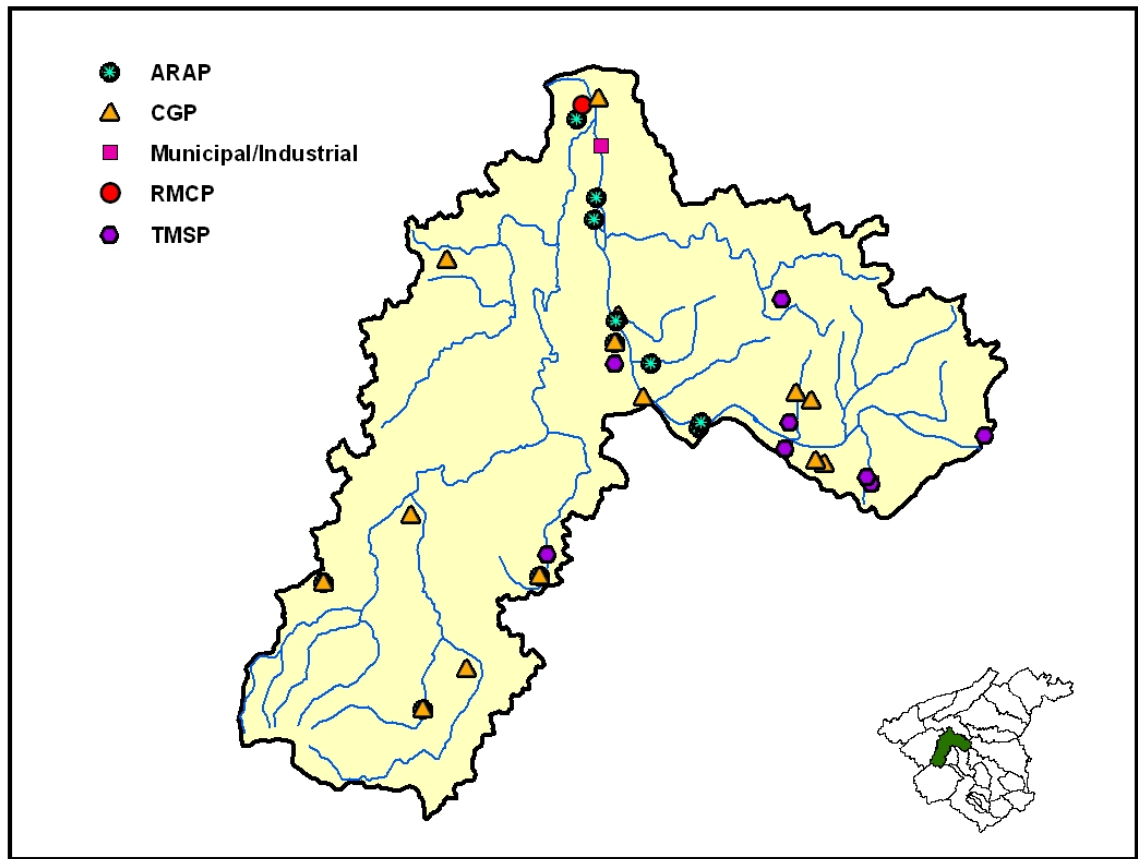


Figure 4-235. Location of Permits Issued in Subwatershed 060101070315. More information, including the names of facilities, is provided in Appendix IV.

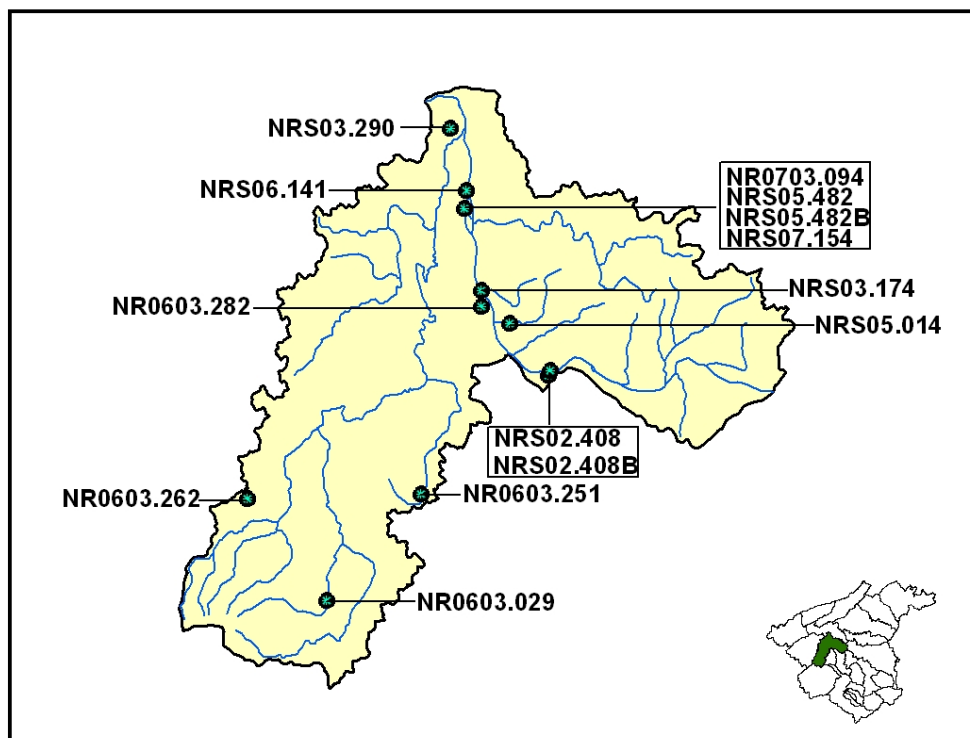


Figure 4-236. Location of ARAP (Aquatic Resource Alteration Permit) Sites in Subwatershed 060101070315. More information is provided in Appendix IV.

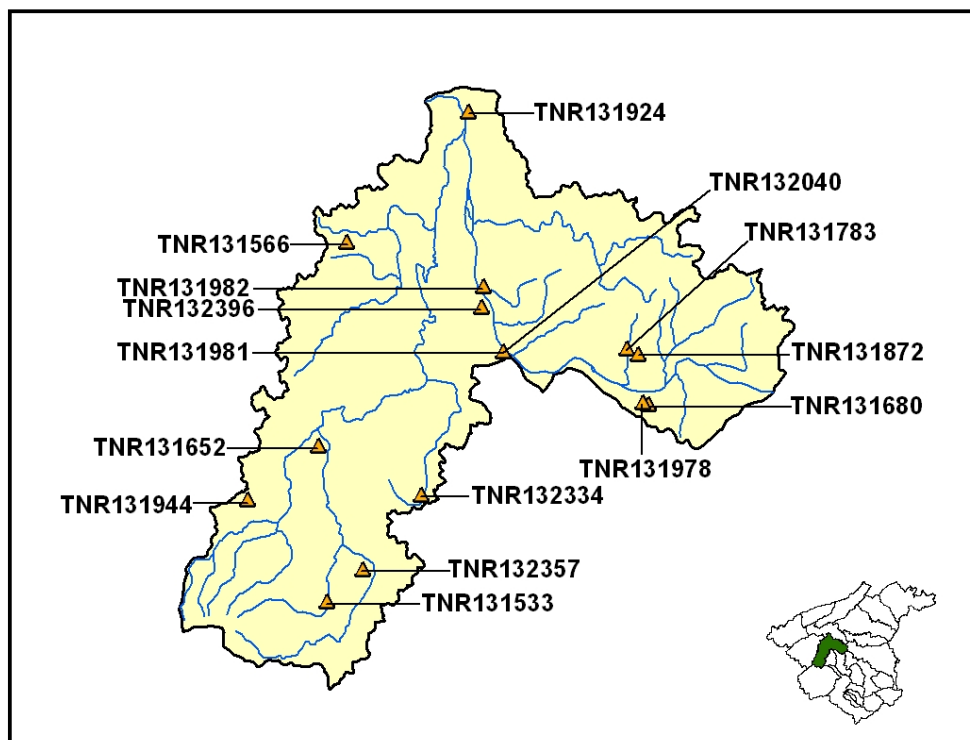


Figure 4-237. Location of CGP (Construction General Permit) Sites in Subwatershed 060101070315. More information is provided in Appendix IV.

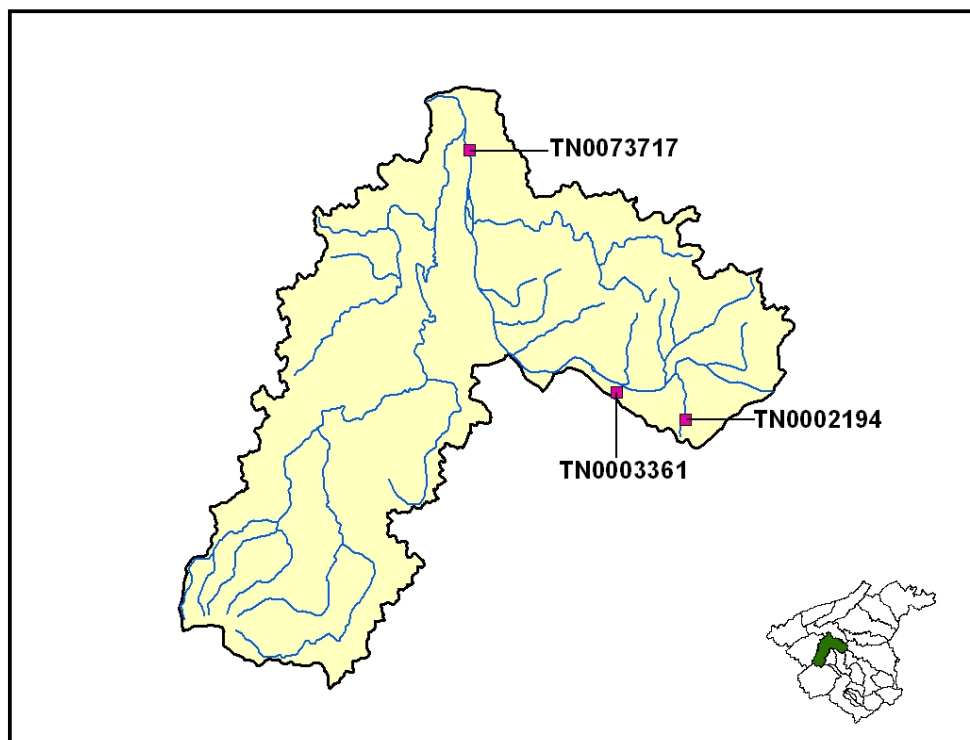


Figure 4-238. Location of permitted MUNICIPAL and INDUSTRIAL facilities in subwatershed 060101070315. More information, including the name of the facility is provided in Appendix IV.

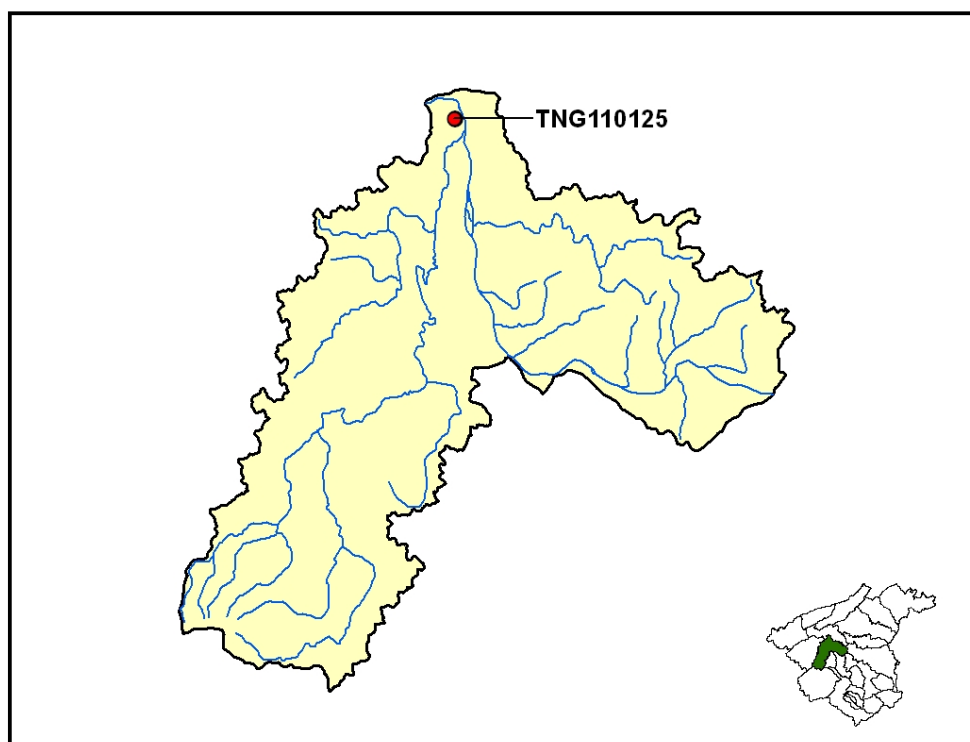


Figure 4-239. Location of RMCP (Ready Mix Concrete Plant) facilities in Subwatershed 060101070315. More information, including the names of facilities, is provided in Appendix IV.

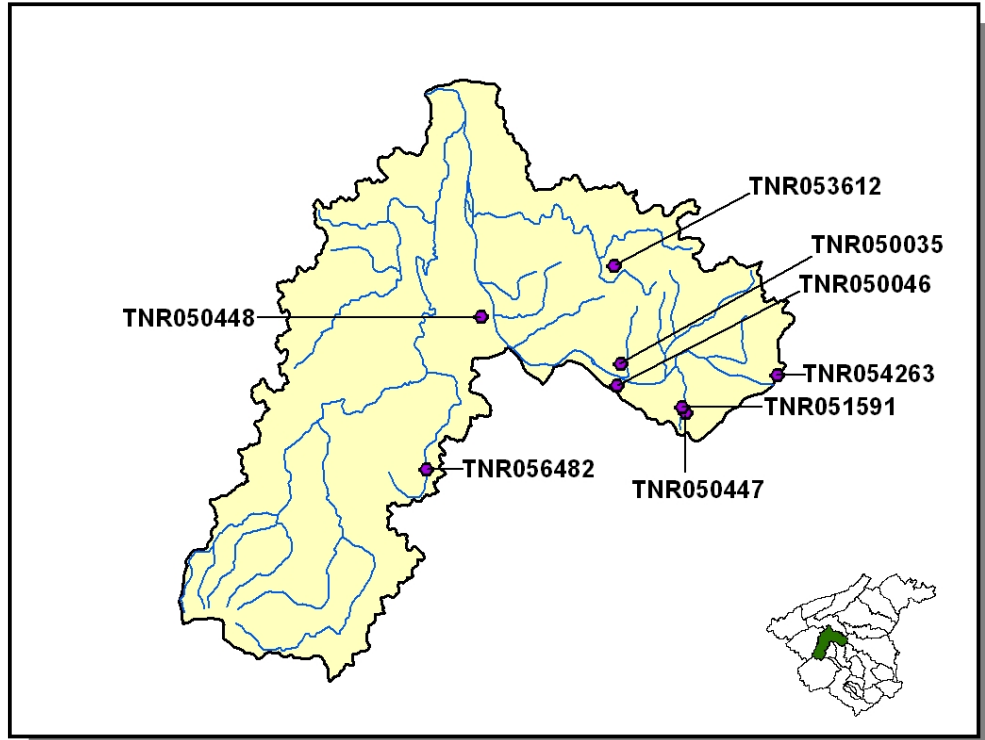


Figure 4-240. Location of TMS (Tennessee Multi Sector Permit) Sites in Subwatershed 060101070315. More information is provided in Appendix IV.

4.2.X.iv. Nonpoint Source Contributions.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sevier	9,816	19,013	172	26	394	234

Table 4-137. Summary of Livestock Count Estimates by County. According to the 1997 Census of Agriculture (<http://www.agcensus.usda.gov/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sevier	254.5	127.4	0.3	0.9

Table 4-138. Forest Acreage and Annual Removal Rates (1987-1994) by County.

CROPS	TONS/ACRE/YEAR
Tobacco (Row Crops)	16.31
Wheat (Close Grown Cropland)	9.53
Corn (Row Crops)	5.13
Summer Fallow (Other Cropland)	3.31
Grass (Pastureland)	0.48
Grass Forbs Legumes Mixed (Pas	0.47
Grass (Hayland)	0.22
Farmsteads and Ranch Headquart	0.22
Legume Grass (Hayland)	0.06

Table 4-139. Annual Estimated Total Soil Loss in Subwatershed 060101070315.